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1	UNITED STATES DISTRICT COURT EASTERN DISTRICT OF VIRGINIA		
2	ALEXANDRIA DIVISION		
3	x		
4		n No.:	
5		tember 9, 2024	
6		Virginia	
7	Pages 1-173 Defendant.		
8	x		
9	The above-entitled bench trial was heard before the Honorable Leonie M. Brinkema, United States District Judge.		
10	This proceeding commenced at 1:58 p.m		
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1 PROCEEDINGS 2 THE COURT: All right. Mr. Casale, you're going 3 to need to speak louder and a bit slower. All right? 4 THE WITNESS: No problem. 5 THE COURT: The afternoon in most trials is what I 6 call the witching hours. People start to get tired and 7 cranky. So make sure you speak up loud and slow. Thank 8 you. 9 MR. ISAACSON: I'm Bill Isaacson, and I'm hoping not to get cranky, so... 10 11 CROSS-EXAMINATION BY MR. ISAACSON 12 13 You were asked -- you used the term, when you were 14 asked questions about the Google Display Network, GDN, the 15 term Google Ads and DV360. I want to make sure I understand 16 what your understanding of those is so that I can understand 17 your testimony. 18 And I think you also said that Google Ads --THE COURT: That's one question. Let him answer 19 20 that question first. MR. ISAACSON: Oh, I didn't ask a question yet. 21 22 THE COURT: Sorry. You were asking him to 23 clarify. 24 BY MR. ISAACSON 25 Just by background, you also said -- tell me if I have

1 this right. You said that Google Ads result in 10 percent 2 of the impressions on Index Exchange and DV360, 28 percent? 3 Yes. 4 Now, at the time of your deposition, you didn't even 5 know what Google Ads refer to, right? 6 That was -- is a marketing rebrand that I was less 7 familiar with at the time, yes. 8 THE COURT: You're dropping your voice. You have 9 to keep it up the whole time. All right? 10 THE WITNESS: Yes. 11 THE COURT: Thank you. 12 BY MR. ISAACSON 13 And so the Google Display Network, from your point of 14 view, includes both Google Ads and DV360, correct? 15 The Google Display Network is an ad network. It is 16 mutually exclusive to DV3 as far as my understanding. 17 Now -- so let me just make sure I understand, then, 18 your testimony. If we can, look -- I put a spiral copy of 19 your deposition there. 20 Yep. 21 You would agree with me that, coming into this 22 proceeding, you thought the term "ad network" didn't have 23 any -- have any real formal definition? 24 The ad -- "ad network" is a very common term in ad

I've known what an ad network is for a long time.

1 MS. WOOD: Your Honor, might I suggest? Is there 2 a way to move the microphone close --3 THE COURT: No, the mic doesn't move; the body has 4 to move. All right. 5 BY MR. ISAACSON 6 Did you think before this case that there was a real 7 lack of formality in defining what an ad network is? 8 Α No. 9 So if we could look at your deposition -- this is your 10 deposition, which was taken September of last year, about a 11 year ago. And at page 116 -- I'm sorry -- yes, 116, line 6 12 through 14, were you asked the question, "Can you think the 13 names of any other ad networks or open web display other 14 than Google Display Network?" And you answered --15 MS. WOOD: Your Honor, objection. I think -- I'm 16 not sure he's established proper impeachment for this. Ιf 17 he could allow the witness to read it. 18 THE COURT: Sustained. 19 Does this refresh your memory? 20 THE WITNESS: Yeah. BY MR. ISAACSON 21 22 And at the time of your deposition, you thought there 23 was a real lack of formality in defining what an ad network 24 is? 25 The question that I was asked was framed in reference

1 to ad networks for open web display specifically. That's 2 what prompted that statement. 3 All right. So that's good to know. 4 So at the time of your deposition, you thought 5 there was a real lack of formality in defining what an ad 6 network for open web display is, right? 7 That was how I answered the question, yes. 8 Q Okay. And then proceeding down to line 22 --9 MS. WOOD: Objection, Your Honor. 10 MR. ISAACSON: I have to ask -- you asked me 11 to have him read it. 12 THE COURT: Well, wait. What's the question? 13 MR. ISAACSON: I want him to read the question and 14 the answer that I'm about to point out to him. 15 MS. WOOD: Your Honor, I don't believe we've 16 established that he had a lack of recollection as to 17 anything. 18 MR. ISAACSON: I am not trying -- well, yes --19 THE COURT: Just ask him the question right now. BY MR. ISAACSON 20 21 At the time of your deposition, did you define the 22 Google Display Network to include DV360? 23 No. 24 All right. Can I ask you to look at line 22 on that 25 same page, the question about the Google Display Network --

1 Α Yep. 2 -- and the answer that you gave about DV360 on the 3 following page? 4 That's very clear to me, what I said. Yeah. 5 At the time of your deposition, you thought that Google 6 Display Network included DV360 and you didn't know what 7 Google Ads was? 8 You're completely mischaracterizing this answer. If I 9 could state the answer, then I think I can articulate the --10 Please explain. 11 So as I said earlier, as of the most recent information 12 that I have, 38 percent of the impressions transacted 13 between DV3 and GDN across the exchange. GDN is a 14 proportion of that, which is roughly one-third. This 15 statement specifically says, "Roughly half to a third of the 16 overall ad spend that we see through our connection to DV3 17 is referencing GDN, " which is correct and is consistent with 18 what I said earlier today. 19 But then at the deposition, you responded -- when 20 you were asked about the portion to GDN, you said, "I would 21 estimate it to be roughly a half to a third of the overall

ad spend that we see through our connection to DV3."?

- MS. WOOD: Objection.
- 24 BY MR. ISAACSON

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Q And that's's DV360, right?

1 MS. WOOD: Objection again. Improper impeachment. 2 THE COURT: Well, at this point, no, I will 3 overrule the objection. 4 But let's get this moving. This is not adding 5 much. 6 THE WITNESS: I would like to answer that 7 question. BY MR. ISAACSON 8 9 All I want to say is, when you said DV3 there, you 10 meant DV360? 11 That's not reasonable. The only way GDN spends money is through the DV3 connection. That's not by our choice; 12 13 that's through Google's choice. That's why it was framed 14 that way. This is ambiguous terminology. 15 THE COURT: Is DV3 and DV360 two different 16 entities or --17 THE WITNESS: DV3 is a demand-side platform, but 18 it's also a pipe-end index. And so GDN also routes through 19 the same pipe, which in my brain I call DV3. BY MR. ISAACSON 20 21 To help the judge out, DV3 is DV360? 22 Yes. 23 And are you saying that the Google Ads runs through the 24 DV360 pipe? 25 That's correct. That's exactly what I'm saying.

All right. And you also testified on direct about your 1 2 views about the customers for Google Ads or Google 3 advertiser customers. 4 At the time of your deposition, you thought you 5 didn't actually know much about the customers -- Google's 6 advertiser's customers. You thought there was a lot of 7 mystery about them. 8 MS. WOOD: Objection. I'm not sure what the 9 testimony is talking about from direct. 10 MR. ISAACSON: You asked him for --11 THE COURT: I am going to overrule the objection. 12 He can ask the question. 13 BY MR. ISAACSON 14 At the time of your deposition, you thought you didn't 15 know much about Google advertiser customers. You thought 16 there was a lot of mystery about them, right? 17 Can you show me the specific quote that you're 18 referencing? 19 Sure. If you look at page 269. All right? 20 You were asked, "Beyond Google bids on Index 21 Exchange -- Exchange, does Index Exchange have a broader 22 understanding of Google's advertiser customers?"

You said, "No."

MS. WOOD: Objection.

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BY MR. ISAACSON 1 "There's a lot of mystery. We don't know much. 2 3 know about the bids that are placed. That's about it." 4 MS. WOOD: Objection again to counsel reading from 5 the deposition without establishing a basis to do so. 6 for context, I also think the previous page, 268, 7 question --8 THE COURT: Well, you can take care of that on 9 redirect, Ms. Wood. 10 BY MR. ISAACSON 11 All right. Other than the actual bids that you saw on 12 Index Exchange, Google customers were a mystery to you at 13 the time of your deposition; you didn't know much about 14 them. Right? 15 Well, what threw me in that question is the term "broader understanding of advertisers -- Google advertiser 16 17 customers." 18 To me, my brain interpreted that as intimate 19 knowledge of the performance outcomes, the styles of 20 campaigns that were being run, all things that I have absolutely no knowledge of beyond the actual bids that are 21 22 being placed, which is how I answered the question. 23 I don't have a broader understanding of each 24 individual campaign that is run as part of GDN or Google

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Cross-Examination - A. Casale

You also discussed the term "open web display advertising during your direct testimony. Those four words are words that you've seen in some partial combinations; but before this case, you had not -- you didn't remember having used -- seen those four words used together, right? Can you show me again? What are you referencing specifically? Well, I'm asking you the question first just from your memory. I'm happy to show it to you in the deposition. Before this case, "open web display advertising," did you have any familiarity with all four of those words being used together as opposed to some combination of two -one, two, or three of them? All of those words are standard words as part of our ecosystem. But if I understood the context of the question when I was asked it, I might be able to specifically reference why I might have answered. THE COURT: No. That's not answering the question. The question is he's talking about a four-word phrase, "open web display advertising." And the question simply is, a year ago, were you aware of what that term meant? THE WITNESS: That was not a well-understood defined category. It's usually "open web," and then "display" is separate. So putting them together is just not

- 1 | a common way we speak in ad tech.
- 2 BY MR. ISAACSON
- 3 | Q All right. Thank you.
- 4 You talked about experiments where the take rate
- 5 was reduced to see the results. Those -- you weren't
- 6 | specifically involved in conducting those experiments,
- 7 | right? You were just informed of the results?
- 8 A I'm not personally involved in conducting those
- 9 experiments.
- 10 | Q To your knowledge, those experiments didn't account for
- 11 | any variables that might affect the result other than the
- 12 | reduction and the take rate, correct?
- 13 | A Correct.
- 14 | Q So, for example, when these experiments were being
- 15 done, no one was comparing the quality of the impressions
- 16 | that were in the experiment.
- 17 A I can't speak to whether that was done or not because I
- 18 was not personally conducting the experiments.
- 19 | Q Right. And you don't know, for example, that any
- 20 experiment was ever run limited to open web display
- 21 | impressions?
- 22 | A I can't confidently say that, no.
- 23 Q I'm not sure you said it. You do consider Google to be
- 24 | a competitor of Index Exchange right?
- 25 A The AdX division of Google, yes.

- 1 | Q And you consider Magnite a competitor of Index
- 2 Exchange?
- $3 \mid A \quad Yes.$
- 4 | Q You consider PubMatic a competitor of Index Exchange.
- 5 A Yes.
- 6 Q You consider Xandr to be a competitor of Index
- 7 | Exchange?
- 8 A Well, Xandr is also a DSP, but the exchange side is
- 9 | Xandr, yes.
- 10 Q Your company considers its main competitors to include
- 11 | Facebook, right?
- 12 A They're a competitor in the macro market.
- 13 | Q All right. The macro market. What is the macro market
- 14 | which you refer?
- 15 | A Digital advertising dollars overall.
- 16 Q And you consider Facebook to be one of the -- your main
- 17 competitors in that macro market, correct?
- 18 A They are everyone's main competitor, us included.
- 19 Q And you also consider Amazon to be one of your main
- 20 competitors in that larger market?
- 21 A In the macro market, yes.
- 22 | Q Okay. And have you -- and you have discussions and
- 23 | documents within your company where you identify Facebook
- 24 and Amazon as some of your main competitors in that macro
- 25 | market?

1 A I can't speak to whether we have documents. We 2 typically focus on exchanges.

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- Q Have you told regulators in Europe that Facebook and Amazon are amongst your main competitors?
- 5 A I can't recall whether that was in any of the 6 questionnaires that we received.
- Q All right. When there were submissions to the CMA back in 2019 by your company, would you have reviewed that?
- 9 A I may have. I don't -- there's a lot of questionnaires
 10 that we're getting all the time. I can't recall them all.
- 11 Q Is it your practice as CEO to look at these and make 12 sure they're identifying your competitors accurately?
- A As I said, there's many questionnaires that we receive, and I do rely on my team to also participate in the submissions.
 - Q And you would expect that their identification of competitors to be accurate?
 - A I would hope they would be accurate, but I don't know what the question that you're asking is in reference to.
- 20 I'd also say the market does evolve over time.
- Q All right. I'm just going to ask you to look in your binder, not put it on the screen. There's a tab. These are in chronological order when they don't have exhibit numbers.

 So there's one that says 2019, 9-30 or September 30.
- 25 So you'll see that on the first page this is a

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Cross-Examination - A. Casale

memo dated September 30, 2019, from Index Exchange. Do you recognize your general counsel, at least at the time, or associate general counsel on that document? I recognize both. Yes. All right. And do you recall the submission to the Competition and Markets Authority in the United Kingdom? I can't say that I recall this, no. Q All right. And if you look at Bates stamp 323, at the very bottom there's a statement from Index Exchange. MS. WOOD: Objection. Hearsay. MR. ISAACSON: This is a statement by his company to a regulatory authority. MS. WOOD: It's still hearsay, Your Honor. MR. ISAACSON: And I'm going to ask him whether he agrees with it. MS. WOOD: Your Honor, the plaintiffs object on hearsay. THE COURT: Well, this witness is not, apparently, the witness who made the answer. If he were, I would permit it to come in because he's here to be cross-examined about it. But we don't have any information as to who actually made the statement, correct? MR. ISAACSON: Other than the individuals whose names is on it. But I want to ask him if he agrees with it

given that he knows his company submitted this to a

regulatory authority. I'm not seeking to admit this document.

THE COURT: Well, he's already said that Amazon and Facebook are major competitors in their macro market. You've already got that testimony.

MR. ISAACSON: I understand, and I'm glad about that. But this is not the macro market in this statement.

THE COURT: All right. Why don't you ask the question directly?

10 MR. ISAACSON: All right.

BY MR. ISAACSON

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- Q As an advertising exchange, does Index Exchange see its main competitors as Google; AppNexus, now a Xandr company; PubMatic; Rubicon; OpenX; SpotX; Amazon; and Facebook?
- A What's the question?
- Q The question is, as an advertising exchange, does Index Exchange see its main competitors as Google; AppNexus, which is now a Xandr company; PubMatic; Rubicon; OpenX; SpotX;
- 19 | Amazon; and Facebook?
 - A Today or in 2019 when this question was submitted?
- 21 **Q** 2019.
- 22 A The reason why I think Facebook was on here in 2019 was
 23 because at the time it operated the Facebook Ad Network,
- 24 | which --
 - Q Can I get an answer to my question?

A Yes, in 2019.

- 2 | Q And as of today, does -- as an advertising exchange,
- 3 does Index Exchange see its main competitors as those
- 4 | companies that I just listed?
- A I don't think in today's version of this question we
- 6 | would include Facebook in this context.
- 7 | THE COURT: Would you include all the others? In
- 8 other words, you've got Google; you've got AppNexus, that
- 9 which is now Xandr; you've got PubMatic, Rubicon, OpenX,
- 10 | SpotX, and Amazon.
- 11 THE WITNESS: I think it would be heavily debated
- 12 on Amazon. The reasons to add it would be TAM. I think we
- 13 would go 50-50, to be honest, because it's not a direct
- 14 | competitor.
- 15 BY MR. ISAACSON
- 16 Q You think Amazon has become less of a competitor since
- 17 | 2019?
- 18 A To some degree, yes, I do.
- 19 | Q Why would Amazon have become less a competitor since
- 20 2019?
- 21 A They have become more of a strategic partner to Index
- 22 | since 2019.
- 23 Q I do want to talk about that. But are you saying that,
- 24 | because you are in a strategic partnership with Amazon, that
- 25 | they are competing with you less?

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Cross-Examination - A. Casale

My understanding of their strategy is that it's evolving and there's no clear sight lines on them launching an exchange. In 2019, we would have had more doubt that they would have launched a direct competitor to Index. In 2019 Amazon was offering auctions for ads on its site, correct? Auctions on its site --For ads. Q That Index participated in or just generally? Just generally. I have no idea how they run their business on their website. Now, are you saying that Amazon was one of your main competitors in 2019, but since then, you've formed a strategic relationship with Amazon and that level of competition has diminished so that they're no longer one of your main competitors? I can't give you a black-and-white answer to that. still view them as being competitivish, but they're less of a competitive threat today than they would have been in 2019. In tech there are no finances, no 0/1 binary. Companies can compete with us in a second. They are in ad tech generally, but I wouldn't say that I would reference them as a primary competitor relative to, say, AdX, Magnite,

- or PubMatic in that context outside of the macro market. 1 2 It's your general view, even this year, that the world 3 of programmatic ad tech is dynamic and unpredictable? 4 Α Yes. 5 And that it continues to encounter numerous 6 transformational events that impact ad tech? 7 I would agree with that statement. All right. And one of those transformational events 8 9 impacting ad tech is the growth in video and streaming TV, 10 correct? 11 Absolutely. It is a growing channel, and it's evolving 12 ad tech as a result. 13 And Index Exchange has added connected TV as a channel, 14 correct? 15 Yes, we have added it as a channel. 16 And you've added it as a channel because you think 17 that's where your customers are moving and you are following 18 suit? 19 A I -- that characterization would not be consistent with 20 the reason we have entered the channel. Some of our 21 customers have evolved into streaming; but for the most 22 part, streaming television has represented new customers in 23 a different category for Index for new growth opportunity.
 - There's been an expansion of channels by your

I'm sorry. I didn't mean to talk over you.

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1 customers that now includes connected TV, and your company 2 has followed suit. That's correct? 3 We have added a new channel of demand into the exchange 4 that's servicing new addressable opportunity, correct. 5 All right. And connected TV spend was 0 percent for 6 your company two to three years before your deposition. So 7 that's '21 -- 2021; and by 2023, it was approximately 8 10 percent of the ads spent on Index Exchange, correct? 9 That sounds about right, plus or minus. 10 Now, you discussed header bidding. After header 11 bidding began, at some point you understood that Google's 12 AdX was marketing itself, saying you don't need header 13 bidding because AdX has access to every DSP? 14 I heard that from the publisher community. 15 More importantly, what you thought was that Index 16 Exchange had to sell against that particular pitch by 17 Google? 18 Absolutely. 19 All right. And what you then observed was that 20 Google's marketing against header bidding fell apart and was 21 only short-lived? 22 Well, Google was attempting to position header bidding 23 as something that was a hack and that was causing latency; 24 but in the end, publishers still adopted it.

Publishers adopted it and revenue went up despite the

- 1 Google marketing pitch?
- 2 | A I would agree with that characterization.
- 3 | Q In fact, I think what you said on direct was that
- 4 | header bidding has brought the exchange market to a -- to
- 5 where it's hypercompetitive?
- 6 A I would agree that header bidding is hypercompetitive.
- 7 | That sounds like something I would say.
- 8 | Q But you're specific to the exchange market. The
- 9 exchange market is hypercompetitive because of header
- 10 | bidding?
- 11 A Header bidding made the exchange market
- 12 | hypercompetitive compared to the waterfall era of prior.
- 13 Q Right. And today the exchange market with header
- 14 | bidding remains hypercompetitive?
- 15 | A I would agree with that statement.
- 16 Q And from what you have seen, almost every publisher on
- 17 | the open web leverages some sort of header bidding?
- 18 A Plus or minus some publishers. That sounds about
- 19 | right.

- 20 Q And then you talked about open bidding. From what you
- 21 | saw, open bidding did not kill header bidding. From what
- 22 you saw, if anything, it grew header bidding?
- 23 A Open bidding did bring new publishers into the
- 24 paradigm. Yeah, that did happen.
 - Q And when you say "brought them into the paradigm,"

- that -- new publishers joined because of open bidding, and
 that grew header bidding?
- A In certain cases, not in every case. But it certainly moved publishers away from the waterfall.
- Q All right. Now, the vast majority of all transactions on Index Exchange are header bidding-type transactions,
- 7 | correct?

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- A Header bidding-type transactions, yes.
- 9 Q Okay. And by header bidding-type transactions, that
 10 would include transactions using Prebid ad tech that we've
 11 discussed earlier in court? Well, you weren't here.
 - A Yes, this would include Prebid. Absolutely.
- 13 | Q It would include Google's Open Bidding?
- 14 | A Yes, it would include Google's Open Bidding.
- 15 Q It includes Amazon's Transparent Ad Marketplace, or
- 16 | TAM?
- 17 | A Yes, it would include TAM.
- 18 Q All right. And so we're saying, the vast majority of
- 19 | all the transactions on Index Exchange are coming from
- 20 | header bidding; they're coming from Prebid, Open Bidding,
- 21 \parallel and TAM?

- 22 A Specifically in the open web. In streaming or in app,
- 23 there would be different partners as well. But those would
- 24 | be three specifically on the web.
 - Q Okay. And approximately 50 percent of Index Exchange

revenue comes from Prebid header bidding transactions, 1 2 correct? Approximately. Yeah, that sounds about right. 3 4 Now, I mentioned Amazon's Transparent Advertising 5 Marketplace, TAM. Index Exchange is one of the buyers in 6 Amazon TAM auctions, correct? 7 Yes. And Amazon markets TAM as having access to unique 8 Q 9 Amazon demand as a feature, doesn't it? 10 I have heard that framing before. 11 Now, you mentioned a strategic partnership. Let's talk 12 about what that is. 13 In June of this year, Amazon announced a launch of 14 a certified supply exchange program that includes Index 15 Exchange, correct? 16 MS. WOOD: Objection. Foundation and hearsay. 17 THE COURT: All right. You need to lay a 18 foundation. 19 MR. ISAACSON: I'm talking about --20 MS. WOOD: And also beyond the scope, Your Honor. 21 MR. ISAACSON: This is the strategic program that 22 he discussed earlier that he has knowledge of. 23 THE WITNESS: That is not, actually. You're 24 drawing a conclusion there.

1 BY MR. ISAACSON 2 You're right. Let me -- then I shall ask you if that's 3 the strategic program --4 Α No. 5 Okay. What is the strategic program that you're 6 referring to --7 TAM. 8 It's TAM. Okay. So you're working with TAM. 9 addition to TAM, Index Exchange is part of a certified 10 supply exchange program now with Amazon that was announced 11 in June, correct? 12 MS. WOOD: Same objections. Hearsay and beyond 13 the scope and foundation. 14 THE COURT: Well, I don't know if it's hearsay. First of all, do you have an answer to that --15 16 without giving me the answer, do you have an answer for that 17 question? That partnership is correct, but it 18 THE WITNESS: 19 is in reference to the Amazon DSP, not TAM. So I just want 20 to be clear on that. 21 MR. ISAACSON: Yes. And I wanted to explain that. 22 THE COURT: I'm going to permit this. Overruled. 23 BY MR. ISAACSON 24 So explain what the Amazon DSP is.

The Amazon DSP is a demand site platform that marketers

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Cross-Examination - A. Casale

- use to place bids in the programmatic marketplace or cross exchanges, including Index.
- Q Right. And so the Amazon DSP gives you access to third-party ad inventory in Amazon and outside of Amazon, right?
- A I don't know how it works in Amazon, but that sounds correct. But outside of Amazon, that's why they would be working with a company like Index.
- 9 Q Right. So they are making Index Exchange demand 10 available through the Amazon DSP?
- 11 A You said "demand." Did you mean supply?
- Q Well, you're the SSP. I was referring to the Amazon
 DSP.
- 14 A Index Exchange does not make demand available to a DSP.
- 15 Q What is it you're making available to the --
- 16 A It makes supply available to a DSP.
- Q Makes supply available. So publisher supply. All right. Yes. Thank you.
- And Amazon, in connection with its DSP, to your knowledge, does it market itself as providing billions of proprietary audience signals?
- 22 A I am not versed with their marketing of their DSP. I'm
 23 not their target market.
- Q Okay. Now, Index Exchange once had its own header bidding wrapper, but you stopped that when Prebid became

popular. Is that right?

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- 2 | A There was a time when Prebid and our header tag wrapper
- 3 | were both in market. As Prebid adoption grew, we
- 4 | end-of-lifed the header tag wrapper over a period of years.
- 5 Q Right. And so right now Index Exchange supports
- 6 publishers using Prebid header wrappers?
- 7 | A We support a variety of header wrappers, including
- 8 | those that are built on Prebid, including those that are
- 9 proprietary wrappers as well, many of which are inspired by
- 10 | Prebid. But we are not exclusive to just Prebid. I just
- 11 want to make clear.
- 12 | Q So Prebid wrappers -- Prebid header bidding wrappers,
- 13 proprietary wrappers which are based on Prebid technology,
- 14 | and then -- and does that include Amazon TAM?
- 15 \parallel A Amazon TAM is a server-to-server integration that I
- 16 would frame as proprietary. It could be based on Prebid,
- 17 | but I do not believe it's based on Prebid, to the best of my
- 18 | knowledge.
- 19 \parallel Q All right. You gave some opinions about the dangers of
- 20 header bidding. Before the launch of Prebid, would you
- 21 | agree that header bidding was dominated by bad practices and
- 22 poor standards?
- 23 A Before the launch of Prebid, header bidding was an
- 24 | infant.

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|| ○ A what?

- 1 | A An infant. It was barely a technology at all. And so
- 2 \parallel I think, to a large extent, there was no standard at all.
- 3 And that, you know, was very true of any technology that's
- 4 | brand new.
- 5 | Q And Prebid launched around 2015, correct?
- 6 A I don't have the exact time stamp in my head, but that
- 7 | is roughly the right time frame.
- 8 Q I'm looking at Prebid's announcement. Does that sound
- 9 | correct?
- 10 A It sounds like the right time frame. I just don't have
- 11 \parallel the date stamp in my head.
- 12 | Q All right. Now, we just -- I want to make sure I
- 13 | understand how this is working because we've established
- 14 | that almost all of your revenue is coming through header
- 15 | bidding. But at the same time, all of your revenue comes
- 16 | from buying tools, or DSPs, right?
- 17 A DSPs or buying tools connected to the exchange are the
- 18 only way to spend money through the exchange.
- 19 Q And so they come through the header bidding, or is it
- 20 | the other way around?
- 21 | A They come into the exchange. The exchange will places
- 22 | bids into Prebid, into Amazon TAM, into any technology that
- 23 | the publisher is using to run their unified auction.
- 24 | Q Right. So the DSPs come to you, and then those bids --
- 25 and those bids are then placed into header bidding?

1 Α That is -- yeah, correct. 2 And Index Exchange integrated with approximately 75 DSPs that can bid into an Index Exchange auction? 3 4 Roughly 75. Again, plus or minus. Α 5 And index is integrated with Google's DV360, correct? 6 Yes. Correct. 7 All right. And header bidding provides the same equal 8 access to inventory and consumers as direct buys of 9 advertising, correct? 10 I don't think that that's a universal truth. 11 question depends upon the publisher and their own implementation. And every publisher is different. 12 13 In certain cases, a publisher can make header 14 bidding equivalent to direct. In other cases, a publisher 15 can prioritize direct above header bidding. 16 So it's impossible to make that statement 17 universally. 18 Well, by using header bidding, would you agree that 19 media buyers can gain the ability to compete with direct 20 buys? 21 Using header bidding coupled with a publisher's 22 implementation, typically in the ad server, can facilitate 23 that outcome. 24 Now, Index Exchange also has supply path optimization

agreements with media agencies, correct?

A Yes, we do.

- 2 Q Now, supply path optimization is a way to improve
- 3 advertising outcomes by reducing the number of
- 4 | intermediaries that media buyers work with; is that
- 5 generally right?
- 6 A I -- to be honest, I -- A, I am not a media agency, and
- 7 | so I don't do SPO agreements myself from the context of why
- 8 \parallel they do it.
- 9 I can infer from the SPO agreements that we've
- 10 done with media agencies, there's a variety of reasons,
- 11 | including supply chain hygiene, certainly including the
- 12 consolidation of vendors, reduced fees. Those are some of
- 13 | the reasons that I understand. But I think every agency
- 14 | also does SPO on their own with their own methodologies.
- 15 | Q And SPOs in general reduce the number of ad tech
- 16 | intermediaries they're working with?
- 17 A I think that's a reasonable conclusion, but I don't
- 18 | know specifically how many SPO agreements any given media
- 19 | agency strikes. I don't have those numbers.
- 20 Q And through SPO agreements, supply path optimization
- 21 | agreements, DSPs can also enter into direct relationships
- 22 | with publishers to purchase advertising directly from these
- 23 publishers?
- MS. WOOD: Objection. Foundation. I think he's
- 25 | already indicated these are not familiar to him.

1 THE COURT: We don't want you guessing. We either 2 know or --3 THE WITNESS: I'm not privy to those agreements at 4 all. I couldn't tell you. 5 THE COURT: Objection sustained. 6 MR. ISAACSON: Can I -- in his deposition, he said 7 he was familiar with this, Your Honor. And I can show him that. 8 9 THE COURT: All right. Well, let's --10 BY MR. ISAACSON 11 All right. At page 41 of your deposition --12 Α Sure. 13 Oh, I misstated the question. So let me rephrase the 14 question. I apologize. 15 Having not -- just setting aside supply path 16 optimization, DSPs can enter into direct relationships with 17 publishers to purchase advertising directly from those 18 publishers; is that right? 19 That is correct. 20 I apologize. 21 And if DSPs buy directly from a publisher, that 22 can divert spend from Index Exchange, correct? 23 I have no idea how DSPs allocate their spend; so I 24 can't confidently answer that question. 25 The auctions that Index Exchange has been running, at

1 one point Index Exchange was running a second-price auction, 2 correct? 3 Yes. The entire industry was. 4 We haven't talked about this yet. It's in the 5 glossary. But maybe I'll just take a moment to say -- so in a second-price auction when a buyer pays -- the buyer pays 6 7 the second-highest bid when they win the auction? 8 MS. WOOD: Objection. Beyond the scope. 9 THE COURT: Well, it may be. 10 A, we don't have a jury. B, it's a bench trial, 11 and I don't want witnesses to have to come back and forth. 12 So we're going to bend the rules a little bit in that 13 respect. And, again, on redirect, you can go into it. All 14 right? MS. WOOD: Thank you, Your Honor. 15 16 THE COURT: All right. Overruled. 17 THE WITNESS: Can you rephrase -- or restate the 18 question. 19 BY MR. ISAACSON 20 In a second-price auction, the winning bidder pays the 21 second-highest bid when they win the auction? 22 That's partially correct, but there's more to it. So 23 in a second-price auction, typically it's what it sounds 24 like. So you pay the second-highest bid or the floor. So 25 if the floor is higher than the second-highest bid but below

- your bid, you would pay the floor.
- 2 | Q Yes. All right. Thank you for that.
 - And then Index Exchange shifted to a first-price auction five or six years ago?
 - A That is correct.

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- Q A first-price auction is easier to understand for everybody. Highest bid wins?
- 8 A And specifically --
 - Q As long as they're above the floor price?
- 10 A Specifically, though, you pay what you bid. That's the 11 difference fundamentally.
- 12 Q All right. And the reason -- Index Exchange switched
- 13 | from a second-price to a first-price auction because you
- 14 | thought games were being played by exchanges and SSPs who
- 15 were running a first-price auction but calling it a
- 16 | second-price auction?
- 17 A That was one of the reasons for the switch to the
- 18 | first-price auction. It wasn't the only reason. There were
- 19 more, but that was one of the reasons.
- 20 Q All right. Just focusing on that reason, you thought
- 21 | one reason it made sense to move to a first-price auction
- 22 was to move everyone to an auction where there weren't those
- 23 games that were going to be played?
- 24 A That is certainly one of the reasons we moved to the
- 25 | first-price auction.

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Cross-Examination - A. Casale

- All right. I want to understand what you mean by your tiny company. You started in 2011. You doubled your revenue every year from 2011 to 2014, right? I don't have those numbers in my head, but that's probably right. I just would need to... All right. You were profitable in 2014 with \$200 million in revenue? No. That's not correct. You're likely referring to ad spend. That's not revenue. Ad spend is not revenue. That's before the take rate that we assume is revenue. And my colleague pointed out I misspoke. You were founded in 2003, not 2011, right? I assumed you were referring to 2011 as the pivot to programmatic. Yes. That's how I contextually answered your question. Thank you. Well, let me ask you about this: So if you look at tab -- the tab with the date, the 2015, February 2; so 203. THE COURT: What's the date again? MR. ISAACSON: Well, it's missing from my binder. It's probably missing from everybody's binder.
- MS. WOOD: February 3.
- MR. ISAACSON: February 3?

1 MS. WOOD: February 3, 2015. 2 MR. ISAACSON: Oh, here it is. No, I have it. 3 have it. All right. 4 BY MR. ISAACSON 5 You recognize -- you see this is from AdExchanger.com, 6 and that's your picture back in 2015? 7 Yes. 8 And if you turn to page 4, it says in the fourth 9 paragraph --10 MS. WOOD: Objection. If there's going to be 11 reading from the document, it's -- the objection is to 12 hearsay. 13 MR. ISAACSON: I thought I'm allowed to read 14 hearsay in cross-examination and ask him about it. It's 15 cross-examination. I'm not seeking to admit this. 16 THE COURT: Well, why don't you just ask the 17 question rather than referring him to the text. Just ask 18 the question. 19 BY MR. ISAACSON 20 The question is, which is in the fourth paragraph, 21 Index Exchange projects \$200 million in gross revenue for 22 the current fiscal year which ends in March. 23 Does that refresh you that, around that period, 24 you were taking in \$200 million in revenue?

Well, you're choosing to ignore the word "gross."

- 1 Gross revenue is not revenue. Gross revenue is ad spend.
- 2 | That's why the word "gross" is in front of revenue.
- Q Okay. So gross revenue. So thank you. I appreciate that.
- 5 And then over the past 10 years, Index Exchange
- 6 has seen a five to ten times growth in revenue?
- 7 A That sounds about right. Again, I'd have to look at 8 the numbers, but it sounds about right.
- 9 Q And compared to ten years ago, Index Exchange can now
- 10 | handle 400 times more auctions than it could, then, ten
- 11 | years ago?
- 12 A That sounds about right, yeah.
- 13 Q And the number of publishers using Index Exchange has
- 14 grown by five to ten times over the last ten years?
- 15 A Also sounds about right, yep.
- 16 Q You've over 550 employees, at least of last year,
- 17 | right?
- 18 | A Yes.
- 19 | Q I want to make -- the \$250 billion number -- not
- 20 dollar -- the 250 billion number that's used, was that bid
- 21 requests?
- 22 A The 250 billion was the volume -- we call them slot
- 23 | requests -- the volume of inbound slot requests from
- 24 publishers -- so effectively auctions -- for specifically
- 25 | open web display.

1 All right. So it's something you would also call an 2 auction request? 3 We call them slot requests, but the industry might call 4 them other things, including auction requests. 5 How many of -- was that per day? 6 That is per day. 7 Now, you say 250 billion. Would you look at page 32 of 8 your deposition. On the last line and continuing on the 9 second page, you'll see there's a discussion of auction 10 requests. Can you explain to me how -- do you have 250 --11 MS. WOOD: Page 32? I'm sorry. 12 MR. ISAACSON: Yes. 32, last line, continuing on 13 to the first couple of lines at the top. 14 THE COURT: Well, rather than looking at the 15 deposition, ask the question. 16 MR. ISAACSON: Right. I'm going to ask. 17 BY MR. ISAACSON 18 Should the number be 400 billion auction requests per day, or should it be 250 billion? 19 20 Well, you're again failing to be specific. Open web 21 display is 250 billion. This question specifically says, 22 "Approximately how many auction requests does Index Exchange 23 handle on a daily basis?" Which I interpreted as in 24 totality.

So in totality, it is larger than 250.

- 1 Q That's why I ask these questions, to get these things 2 clarified. So thank you.
- 3 | A Okay.
- 4 | Q So you were getting -- and you -- your company, with
- 5 | 250 billion auction requests for open web and 400 billion
- 6 auction requests total, markets itself as having massive
- 7 | scale, correct?
- 8 A We have massive scale. The internet is huge.
- 9 Q And almost eight years ago in 2016, you had 4.5
- 10 petabytes of bid data. Does that sound right?
- 11 A I cannot confirm that, just because that data point is
- 12 | just not something in my brain. I don't --
- 13 | Q How many petabytes of data do you have today?
- 14 A I do not have that in my brain.
- 15 \parallel Q All right. The -- I want to ask you how your petabytes
- 16 would compare from 2016 to 2024. If I can ask you to look
- 17 | at Tab 2016 from 10-17.
- 18 A Can you repeat the date.
- 19 | Q Sure. 2016, and then 10-17. You'll see this is a
- 20 | tweet from you in 2016.
- 21 | A Okay. Yep.
- 22 Q Does this tweet refresh your recollection that in 2016
- 23 | you were storing 4.5 petabytes of bid data across the
- 24 | exchange?
- 25 A That would appear to be what this tweet is saying.

- 1 | I -- yes. I can't recall that tweet.
- 2 Q And how much -- by how many factors more in petabytes
- 3 | would you have today?
- 4 | A I really could not confidently answer that because
- 5 | engineers are constantly trying to find new ways to pack
- 6 data and optimize the data store that we have. And so the
- 7 | maximum will be the growth in slot requests, but it probably
- 8 | wouldn't be that significant because they've probably found
- 9 new ways to organize the data.
- So, again, this is not a statistic that I have in
- 11 | my head.
- 12 | Q You mentioned that your auctions include things other
- 13 | than open web. Publishers can use Index Exchange to sell
- 14 | video ads on the web?
- 15 A Yes, they can.
- 16 Q Publishers can use Index Exchange to sell display ads
- 17 | on mobile apps?
- 18 A Yes, they can.
- 19 Q They can use Index Exchange to sell video ads on mobile
- 20 | apps?
- 21 | A Yes, they can.
- 22 Q Publishers can use Index Exchange to sell video ads on
- 23 | connected TV? Maybe we already established that.
- 24 A Yes, they can.
- 25 Q And you have observed, as part of your work, that

1 publishers typically use multiple ad exchanges, correct? 2 Most publishers use multiple ad exchanges, correct. 3 You have even seen that some publishers might use up to 4 a dozen ad exchanges. 5 That's an arbitrary number. Yeah, I'm sure that there 6 are publishers that use a dozen, maybe more, maybe less. 7 Like, every publisher has their own strategy. 8 And from your view of the industry, you would say there 9 are about 50 companies in ad tech on the supply side, 10 correct -- programmatic supply side? 11 I -- it's really hard for me to say specifically only 12 because businesses are entering and leaving the business all 13 the time. So that sounds about right. But it could be too 14 small; it could be too big. There's a lot of change in the 15 individual businesses these days. 16 Well, at the time of your deposition a year ago, did 17 you think that there were roughly 50 companies, depending on 18 the channel, that are on the supply side of programmatic 19 ad tech? 20 It seems like a reasonable guess. I'm just stating 21 it's a reasonable guess. 22 Based on what you've observed, you think that the 23 markets are on a road to consolidation, correct? 24 I do believe the market is on a road to consolidation,

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correct.

1	Q You think in five years' time there will be three to
2	five exchanges globally to process all channels?
3	A I do believe over the coming years there will be a
4	small handful of exchanges processing all transactions.
5	Q And you believe that the ad exchange marketplace is a
6	very competitive marketplace where everybody wants to win,
7	and that's going to accelerate the path towards
8	consolidation, right?
9	A I do believe the marketplace is very competitive and
10	consolidation will be an artifact of that. That's a
11	reasonable conclusion.
12	Q In fact, you think that if DFP and AdX were separated,
13	that would accelerate the path towards consolidation?
14	A I think that's a possible outcome.
15	MR. ISAACSON: Can we look at their Demonstrative
16	G. Your demonstrative.
17	MS. WOOD: Put up G.
18	BY MR. ISAACSON
19	Q All right. You talked about this with counsel. Now,
20	when you were talking about
21	THE COURT SECURITY OFFICER: Judge, it's not
22	coming up on the screen over here.
23	(Pointing to the witness stand
24	screen.)
25	THE COURT SECURITY OFFICER: We've got a blank

1	screen here.
2	(Pause in proceedings.)
3	MS. WOOD: There should be a copy in the white
4	binder right there.
5	BY MR. ISAACSON
6	Q Now, when you were testifying about the disadvantages
7	of the waterfall with this illustration, were you talking
8	about before or after Dynamic Allocation?
9	A I was talking generally about the practice of a
10	waterfall.
11	Q So this what you were talking about would be true
12	before and after Dynamic Allocation?
13	A I can't confidently answer that question only because
14	the ins and outs of Dynamic Allocation are not something
15	that I intimately understand. I understand, like, just
16	base-level knowledge on that.
17	Q Did you know how the waterfall worked before Dynamic
18	Allocation?
19	A Yes.
20	Q Is that what you were describing?
21	A I was describing a conventional waterfall.
22	Q Well, did you think AdX was first in line before
23	Dynamic Allocation?
24	A I was simply commenting
25	MS. WOOD: Objection. Foundation. I think he's

- already indicated he's not familiar with Dynamic Allocation,
 which is a Google feature and a Google product.
- 3 MR. ISAACSON: He testified at length about this 4 chart. The chart's got AdX first.
- THE COURT: I am going to overrule the objection.

Again, on redirect you can get into it.

7 BY MR. ISAACSON

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- Q Did you think after Dynamic Allocation -- that before
 9 Dynamic Allocation that AdX was first in line?
- 10 A I was commenting based on the chart that I saw, which
 11 depicts that AdX was first in line. That's what I was
 12 specifically commenting on.
- Q Okay. So you're just commenting on the chart; you
 don't actually know whether AdX was first in line or when it
 was first in line?
- A Absolutely not. That's entirely dependent on each individual publisher and their own strategies. This is a chart.
 - Q Yes. And what you do know -- maybe you don't -- you do know that the price floor that's set is set by publishers?
- 21 A That's correct.
- Q And do you know how those companies -- why one's first, one's second, third, fourth, or fifth?
- 24 \parallel A The sequence of the waterfall is set by the publisher.
 - Q Okay. And it's set by the publisher based upon the

1 expected value from each of those players, correct? 2 You're getting into specifics that I don't have. 3 don't know how publishers are setting the sequence of the 4 waterfall beyond that we know that they set it. 5 I'm not going to keep you long on this, sir. I just 6 need to understand. 7 When you were testifying about this chart, you 8 didn't know on what basis these companies are put in this 9 order; you don't know the time period this was true. You're 10 just looking at the chart and giving opinions about it? 11 That's correct, yes. 12 MR. ISAACSON: No further questions. 13 THE COURT: All right. Redirect. 14 REDIRECT EXAMINATION 15 BY MS. WOOD 16 Mr. Casale, fair to say you've never worked at DFP, 17 Google's publisher ad server? 18 That's fair to say. 19 And is Dynamic Allocation a feature of DFP? 20 Yes, it is. 21 Now, you indicated earlier in response to counsel's 22 questions about whether Amazon was a competitor. You said 23 that's debatable. 24 What were you referring to?

So Amazon has a division called TAM, Transparent Ad

Cross-Examination - A. Casale

Marketplace, which operates something like a header tag wrapper service, server to server; and Index is a participant in that service. It is a sell-side solution. So it's sold to publishers, which brings it into the sell side orbit.

But it is not an ad exchange. It is not an ad exchange like Index. And that's where it's debatable because they have a product that they sell to publishers on the supply side, but it is not a full-fledged competitive product like an ad exchange.

- Q And how are header wrappers, like TAM or Prebid, different than an ad exchange?
- A Header wrappers help the publisher generally run the unified auction and solicit demand in parallel from however many exchanges the publisher wants to work with.

So a header wrapper, like a TAM or a Prebid, might call Index and five other exchanges. We will place a bid into the wrapper. It will pick a winner and push that into the ad server.

What makes it different than an ad exchange is, as an ad exchange, our responsibility is to marry a publisher supply with the 75 plus or however many DSPs a given exchange is connected to.

So we're submitting bid requests to DSPs. We're doing everything we can to optimize the GPS that we send

them so that we don't waste their compute. We are attempting to bring back as many bids as possible. And we're helping the publisher price and floor as well.

So our feature set is just very different and closer to the DSP, whereas the header tag wrapper is really responsible for just soliciting demand from us after we've completed that.

Q Now, you also talked about Amazon having a demand-side platform.

Do you recall that?

A Yes.

Q You indicated that Index was not the target market, to your understanding.

What did you mean by that?

A demand-side platform is focused on the buy side of the market. And so whether it be Amazon's DSP or any other, they have a platform that has, you know, features and functionality that allows advertisers or agencies to place bids on media.

We're not a customer to Amazon's DSP. That's why I made that comment.

Q Now, there were some questions on cross-examination about some marketing materials where Index said it had scale or massive scale, and then there were some questions about petabytes of data.

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auction for an impression?

Cross-Examination - A. Casale

How would you characterize the amount of data and scale that Index has in this marketplace vis-a-vis Google? So when I reference scale in that context, it's access, as in we have access to 250 billion, roughly, auctions or slot requests daily in the open web in display for anyone to buy. But as we've discussed previously, we clear half a percentage of those. And so when I think of, you know, the value of that scale to our business realized through something that's revenue-generating, it is an insignificant fraction. Now, that scale helps us, from a marketing perspective, attract publishers; it helps us attract DSPs in buy side. But we don't directly benefit from that scale unless we clear or win the transaction. And, again, the amount of transactions that you win is .5 percent; is that right? Roughly a half a percentage, correct. Now, there was some testimony on cross-examination about header bidding increasing the competitiveness of the marketplace and making it, quote, hypercompetitive. Do you remember that? Yes. How -- putting aside the auctions, do you believe that header bidding has increased the competitiveness of an

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Cross-Examination - A. Casale

Header bidding -- header bidding, compared to the waterfall, has brought much more auction pressure to the market because we can all -- every exchange can place a bid simultaneously. That's what I mean by hypercompetitive. And is the competitiveness of an auction different than the competitiveness of the marketplace for ad exchanges where you compete against AdX, for example? Α Yeah, that's a reasonable distinction. And what is that distinction? Well, we don't have an ad server that has the vast majority of the transactions that we participate on available to index; so we are one step removed from every impression. We're not rendering the ads either. We can't offer certain products and features, for instance, programmatic guaranteed, which puts us at a disadvantage to the value proposition that AdX could offer to the same publisher, for instance. And when you look at the marketplace for tools that website publishers can use, ad exchanges that website publishers can use to publish -- to sell, rather, open web display ads, would you consider that market for those tools to sell open web display ads as hypercompetitive? MR. ISAACSON: Objection. Leading. THE WITNESS: Could you rephrase the question --

or I'm sorry -- repeat it. I missed it.

1	THE COURT: Sustained.
2	BY MS. WOOD
3	Q When you refer to the hypercompetitiveness of after
4	header bidding, were you referring to the auction being more
5	hypercompetitive or the overall market for ad exchanges or
6	something else?
7	MR. ISAACSON: Same objection.
8	THE COURT: It's still leading.
9	BY MS. WOOD
10	Q Please describe what you meant by the market becoming
11	more hypercompetitive after header bidding?
12	A It goes back to that waterfall visual where every bid
13	can now compete for a publisher's impression, whereas
14	historically, based on the way the waterfall used to work,
15	we would be burled at the end of a waterfall chain. And so
16	we would not be able to compete fairly.
17	That's the hypercompetitiveness that we now have.
18	MS. WOOD: Thank you. No further questions.
19	THE COURT: Any recross?
20	MR. ISAACSON: I just want to clarify.
21	Can you just put G up again.
22	THE COURT: You need to be at the lectern.
23	TECHNICIAN: I'm sorry, Counsel. G?
24	MR. ISAACSON: G, yeah.
25	RECROSS-EXAMINATION

1 BY MR. ISAACSON 2 When you refer to the waterfall, is G an illustration 3 of the waterfall to you? 4 To me, G looks like a waterfall. That's how I'm 5 reading it. 6 MR. ISAACSON: No further questions. 7 THE COURT: All right. Does anybody plan to call 8 this witness again in the course of the trial? 9 MS. WOOD: No, Your Honor. 10 MR. ISAACSON: No, Your Honor. 11 THE COURT: All right. Then, Mr. Casale, you are 12 excused as a witness. That means you may stay and watch the 13 proceedings or you may leave, but you're not to discuss your 14 testimony or anything you see or hear in court with any 15 witness who has not yet testified. 16 Thank you. 17 THE WITNESS: Thank you. 18 THE COURT: All right. Your next witness. 19 MR. TEITELBAUM: Plaintiffs call Joshua Lowcock. 20 Thereupon, 21 JOSHUA LOWCOCK, 22 Having been called as a witness on behalf of the plaintiffs 23 and having been first duly sworn by the Deputy Clerk, was 24 examined and testified as follows: 25 (Time noted: 3:01 p.m.)

1 THE COURT: We have no books to give, right? 2 MR. TEITELBAUM: I do, to give to the court 3 security officer, Your Honor. 4 THE COURT: All right. MR. TEITELBAUM: These are for the Court. 5 6 May I proceed? 7 THE COURT: Yes. 8 DIRECT EXAMINATION 9 BY MR. TEITELBAUM 10 Good afternoon, Mr. Lowcock. How are you doing? 11 Good afternoon. 12 Q Could you please spell your last name for the Court. 13 Yes. It's Lowcock, L-O-W-C-O-C-K. 14 Could you please tell the Court where you currently 15 work. 16 I currently work as president of media at Quad. 17 What type of company is Quad? 18 Quad is a marketing experience company. We provide 19 advertising agency services, creative agency services, and 20 print production services. 21 And before you worked at Quad -- let me first ask you 22 this: How long all together, roughly, have you worked at 23 Quad? 24 I have worked at Quad for almost a year.

And before you worked at Quad, where did you work?

- A Prior to working at Quad, I worked for Universal

 McCann, otherwise known as UM. It's another advertising
 agency.
 - Q How long did you work there all together?
- 5 A I worked for UM for about eight years.
- Q Could you tell the Court a little bit about how IPG and Universal McCann are set up as companies?
- A So UM, Universal McCann, is part of IPG, which is
 Interpublic Group. Interpublic Group is described as a
 holding company, which is a business that owns both
 advertising agencies and creative agencies. UM sits within
 the media agency side of the business. It is a business
 unit within Mediabrands, which holds multiple
 - Q And is "media agency" essentially another term for an advertising agency?
 - A Yes, it is.

advertising/media agencies.

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- Q You mentioned creative agency as well. What's that?
- A So the difference between a media agency and a creative agency is that a creative agency actually creates the ads that you see, whether those ads are on television or on the internet. A media agency takes those creative assets and determines where to place them so that they are seen by potential customers and other audiences.
 - Q Was there any particular activity of a media agency

Direct Examination - J. Lowcock

- that Universal McCann was focused on as opposed to the other companies within IPG?
 - A So Universal McCann is focused on media activation across all media channels, and by "media channel," I mean digital, social, search, television, radio, out of home.
- Q And when you say "media activation," could you explain what that means?
- 8 A Media activation is the act of buying or placing media 9 on media channels.
 - Q Could you please give the Court a brief overview of the different positions that you held at Universal McCann and what your duties and responsibilities were?
 - A At Universal McCann, I originally joined as the chief digital officer; so I was primarily responsible for every activation that we did on digital media channels. That includes partnerships and data that we used.
 - I then also had roles that involved client service, client operation; so that's running individual accounts.
 - I then moved on to becoming the chief digital officer and the global brand safety officer. As global brand safety officer, I'm responsible for the security and integrity of where those ads ran. I ultimately culminated my career at UM as the global chief media officer.
 - Q Can you please give the Court an overview of the types

1 of companies that you worked with at Universal McCann? 2 So at Universal McCann, by types of companies that I 3 worked with, we would describe them as clients, our clients. 4 I can't name the specific clients, but they were automotive, 5 government, CPG -- consumer product groups -- retailers, fashion brands, movie studios, to name, you know, them in 6 7 categories. 8 Roughly how many total media campaigns have you worked 9 with throughout the course of your career? 10 Oh, thousands. 11 And all together in your career, about how much time 12 have you spent working in some fashion at an advertising 13 agency? 14 I've spent the better part of 15 years working at 15 advertising agencies. 16 And before we get to some more details about 17 advertising, have you testified in court before? 18 Yes, I have. 19 And did you testify previously as a government witness in the Google search case across the river last year? 20 21 Yes, I did. 22 Okay. So can you tell the Court a little bit about the 23 purpose of advertising from the perspective of the media 24 agency or the advertising agency?

A So an advertising agency -- the purpose of an

Direct Examination - J. Lowcock

advertising agency is to serve our clients. The word "agent" is very important there. So we're an agent for our clients. And the purpose of advertising is to drive, ultimately, sales for our clients.

- Q And just from your experience and based on your personal work at media agencies, could you please give the Court a brief overview of how you approach an advertising campaign?
- A Yes. So the way we approach an advertising company -- and you need to step back a little bit. So our clients appoint agencies on an annual or an ongoing basis. So you have a contract with a client. A client will then give you a brief and a specific budget with which they want to use in their advertising campaign and some goals.

From an agency perspective, what we then do is we identify the right audience to reach. So modern advertising is very much driven by the data that's available. We determine the right audience to reach. We identify the right channels to reach that audience. We're trying to make a determination whether we want brand or performance advertising. And then you go out and activate that advertising in market.

Q So you mentioned two different types of advertising -- brand and performance.

Could you explain to the Court what those two

different types are.

A Yes. So a brand campaign -- apologize because I'm going to introduce additional terms.

A brand advertising campaign is something that we describe as upper funnel. So a brand campaign is about driving awareness about a product or a service.

A performance campaign is typically lower funnel. So what you're trying to do is drive action and purchase behavior by an individual much more faster than you would expect for, say, a brand campaign.

- Q Can you tell us a little bit more about the funnel that you've referred to.
- A Yes. So classically in marketing, we describe marketing as consisting of a purchase funnel. So at the high end of the funnel, you're trying to drive awareness, you're trying to get interest, consideration, and finally a decision or a purchase action at the end of it.

And the way we think about marketing is different sorts of media channels and media tactics. So different purposes within the funnel.

- Q So just using a car manufacturer -- we don't have to identify a specific one -- could you give the Court sort of an illustration of how a brand campaign for a car manufacturer would work?
- A Yeah. So in a hypothetical car manufacturer example,

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if you're doing a brand campaign, what you would be looking to do is drive awareness. So to dimensionalize that example a little bit, let's assume that it was the introduction of a new model. So people aren't aware of the new model. They might be aware of the manufacturer, but they're not aware of the new model.

So in a brand campaign, what you'd be doing is what's the best way to reach potential purchasers of that vehicle with high-impact brand-effective media, which might be television advertising, out of home, or a display ad.

- Q And by contrast, could you also give us an example about how an advertising agency would approach a performance campaign for a car manufacturer?
- A So, again, it's probably better if I dimensionalize the example a little bit.

So on a performance campaign for a car manufacturer, let's assume the car manufacturer was the end of the year; they were looking to do a promotion to, you know, drive sales of vehicles to run out of stock for the end of the year.

What you would be doing is you'd be looking at the data that was available to you as an advertiser to find people that might be both in market for that particular make or model of car; you'd look for things to determine that people might be at the end or near end of their motor

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vehicle lease. And the intent of the campaign would be for people to take action. And that would be to either click on the ad, go to a website and book a test drive, or call a dealer and book a test drive. You've been using the word "channels." Could you explain to us what that means? So -- yeah. Apologies. So when I talk about channels, I'm talking about different methods in which we place advertising. So television is a channel. Display is a channel. Search is a channel. Social media is a channel. And to what degree are there differences in how you approach the different types of channels based on whether it's a brand or a performance campaign? I mean, the way we'd approach things differently -- the more you get into performance-based advertising, the more you become reliant on data and the more you become reliant on tracking and measuring performance. On brand campaigns, data is equally as important, but your objectives on driving short-term actions shift because in a brand campaign -- let's stick with a motor vehicle example. People don't go out and buy a car immediately after seeing an ad; so a brand campaign has a longer term on which you're measuring performance. You might track brand awareness as a metric on a brand campaign.

All right. You mentioned display advertising as one of

the channels.

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2 Could you tell us what display advertising is?

A So if you go to any website, display advertising is the rectangles or boxes that you would see on a page that can --

5 on a webpage containing an ad.

- 6 Q From your work in the advertising industry, are you
- 7 | familiar with the term "open web display advertising"?
- 8 A Yes, I am.
- 9 Q Could you explain -- or let me first ask you:
- 10 | Approximately how long have you been familiar with that
- 11 | term?
- 12 | A Oh, for decades.
- Q Could you explain to the Court what open web display
- 14 | advertising is?
- 15 A Yes. So open web display advertising is a type of
- 16 advertising that can appear effectively anywhere on the
- 17 | internet. It's used as a descriptor in contrast to
- 18 something called "walled gardens," which probably warrants
- 19 | its own explanation and definition. But open web display is
- 20 | advertising that can appear effectively on any website.
- 21 | Q And so you mentioned walled gardens. So can you please
- 22 | explain to us what a walled garden is and how it's different
- 23 | from the open web?
- 24 A Yeah. So a walled garden is best described as a
- 25 constrained environment where you can only buy and place

advertising on that platform in and of itself.

That platform often controls both the tools with which you buy advertising. It also is the custodian of all of the data on that platform; so not only the data that you use to buy that advertising, but it is also the custodian of the data that gives you indications of how that advertising is performing on that platform.

- Q And this is a natural and understandable tendency, but just please make sure to keep the pace of your answers a little bit slower.
- 11 **|** A Yes.

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- 12 | Q Thank you.
- Could you give us a few examples of walled gardens.
 - THE COURT: I'm sorry. This is getting repetitive. I heard it already through other witnesses.
- MR. TEITELBAUM: Understood, Your Honor. I'd be happy to move on to something else.
- 19 BY MR. TEITELBAUM
 - Q Let's change topics a little bit, Mr. Lowcock. Turning back -- are you familiar with the term "the programmatic purchase of advertising"?
- 23 A Yes, I am.
- Q And are you also familiar with the notion of the direct purchasing of advertising?

A Yes, I am.

Q So from the perspective of your work for advertising agencies, can you explain to the Court to what degree is direct buying of advertising a reasonable substitute for programmatic buying of advertising.

MS. RHEE: Objection. Foundation.

THE COURT: I think, given the nature of his business and the number of years he's been in it, he can answer that question.

Overruled.

THE WITNESS: So the difference between direct and programmatic advertising is direct advertising is bought, as the name would imply, direct. So you're negotiating direct with the publisher. You're determining a price in advance, the number of -- and let's use the digital world -- the number of impressions you're going to buy. So impressions is the number of ads that are going to be seen and the length of time the contract is going to run. You negotiate that up front on a direct deal, and there's a contract that's exchanged. And you're working with salespeople on that.

Programmatic advertising looks to automate that entire process. So in programmatic advertising you're not negotiating direct with a publisher. There's multiple technology platforms that are part of that. There's

supply-side platforms, SSPs. There's demand-side platforms, DSPs.

And I have technical specialists that essentially go into a tool, identify the audience, and buy that media and traffic. And by traffic, I mean activate that media across multiple websites all at once. So it's not with one publisher; it's many publishers and many websites at once.

8 BY MR. TEITELBAUM

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- 9 Q And I take it from the context of your answer that, in
 10 your work, you've participated in direct buying of
 11 advertising?
- 12 A Yes, I have.
- Q And have you also participated in the programmatic buying of advertising?
- 15 A Yes, I have.
- 16 Q Could you explain to the Court to what degree -- just returning to the original question.

To what degree is the direct buying of advertising a reasonable substitute for the programmatic buying of advertising?

MS. RHEE: Objection, Your Honor. Calls for the ultimate conclusions.

THE COURT: Overruled.

THE WITNESS: They're not reasonable substitutes, because again -- as I was explaining -- like, direct

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response to those keywords.

Direct Examination - J. Lowcock

advertising involves a lot more labor, skills, and resources in negotiation and contracts and relationships versus the skills on programmatic advertising are much more technical skills. I have separate teams that look after each differently, and those people are not interchangeable. BY MR. TEITELBAUM You're also familiar with a form of advertising called search advertising? Yes, I am. Could you just briefly explain what that is. Search advertising -- if you go to a search engine -that's the box that you see on a search engine. You type in your keyword or your query. The search engine results page loads. There's an ad that appears. Those ads are search advertising ads. And when you're purchasing search advertising, what items are you actually bidding on or trying to purchase? So in search advertising, I'm capturing intent. So I'm bidding -- search advertising works on bids. So I'm bidding on the keywords that people have typed into the search query box. So let's use the automotive example. You've typed in the name and model of a car. I'm bidding on those keywords to capture that intent, and I'm placing ads in

- Q And to what degree, based on your work, is search advertising a reasonable substitute for buying a display ad on a newspaper website?

 A It's -- search advertising is not a substitute for display advertising. And the reason why is they serve
- different purposes both in what we've talked about in terms
 of the funnel because search captures intent, whereas
 display advertising has a brand message.

I mean, the very obvious differentiation between them all is search advertising is all text-based, whereas display advertising has images, perhaps animation, color, other elements like that.

- Q I think we talked a little bit about Facebook before.

 But I just want to ask you more generally.
- 15 Are you familiar with social media advertising?
 - A Yes, I am.
- 17 Q That would include advertising on a page like Facebook?
- 18 \parallel A Yes, I am.

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- MR. TEITELBAUM: Could we please bring up
 Plaintiffs' Demonstrative F, as in Frank, to which there's
 been no objection.
- 22 THE COURT: All right.
- 23 | BY MR. TEITELBAUM
- Q And, Mr. Lowcock, you can either look at the screen to your left or at the binder, whichever you prefer.

1 THE COURT: Is the screen working now? 2 THE COURT SECURITY OFFICER: Yes, ma'am. 3 THE COURT: All right. 4 BY MR. TEITELBAUM 5 And is that image there, Plaintiffs' Demonstrative F, a 6 fair and accurate example of what social media advertising 7 looks like? Yes, it is. 8 9 And could you tell us a little bit more about what the 10 differences are -- well, first let me ask you. 11 Based on your work in the advertising industry, to 12 what degree is social media advertising a reasonable 13 substitute for buying a display ad on a newspaper website? 14 So social media advertising is not a reasonable 15 substitute for display advertising. There's a number of 16 constraints with social media advertising. 17 First of all, you need to have a -- frequently, 18 you're required to have a presence on the social media 19 platform before you can even buy the advertisement. 20 The second one, social media advertising, by its 21 very nature, is social. So users can engage or interact 22 either with the ad itself. You might be able to restrict 23 that. But even if you don't restrict that, because social 24 media platforms are social, people might start commenting or 25 posting comments about the ad. Therefore, you need

Direct Examination - J. Lowcock

community managers and other support to exist around the back end.

The other part that's very important is social media platforms require unique different assets to be much more effective. So you can't take a display ad and place it on a social media website. In fact, several social media platforms actively promote the fact that you should not create anything but unique specific content specifically for social media and not to repurpose other assets.

- Q Could you give us an example of that phenomenon that you just described.
- A I mean, TikTok significantly -- like, primarily TikTok talks a lot about you must make TikToks, not ads, because you cannot repurpose your ads from other channels to be successful on TikTok.
 - Q And at a practical level, what actually looks different about TikTok compared to a display ad on a newspaper website?
 - A Well, I mean, TikTok is -- it's a short form or video content. It will have audio or music or some other, you know, sound element to it. It will be -- it will always be animated because it's video. It will be much more engaging. It will encourage the user to interact or share or even potentially remix the ad.
 - Q And are there any different requirements with respect

- to advertising budget between social media and buying display ads on a website?
- A So yes, there is. On social media advertising, social media advertising is accessible to anyone. Whether you're a small business or an agency, you can buy social media advertising with a credit card.

Display advertising requires a little bit more sophistication because you need to both create display assets. You need to find a way to buy display advertising. So you would typically -- people buying display advertising would typically employ an agency to do that.

Q All right.

And we can take Plaintiffs' Demonstrative F down.

And if we could please display Plaintiffs' Demonstrative B again.

Mr. Lowcock, are you familiar with a type of advertising called native ads? And you don't need to look at the demonstrative quite yet.

- A Yes, I'm familiar with native ads.
- Q Could you explain to the Court what a native ad is.
- A So a native advertisement is an advertisement that's meant to look -- the name sort of almost describes it -- look native to the content on the page. So it's meant to look more like editorial content on a website.
 - Q So to what degree is a native ad a reasonable

- substitute for a display ad on a newspaper website, for example?
- A A native ad is not a reasonable substitute for a display ad. There's a number of reasons why.
 - Q And let's -- now, I think, would be a good time to bring up Plaintiffs' Demonstrative B.

And if we could magnify the bottom half of that page as big as we can make it.

So let me first ask you, Mr. Lowcock. On Plaintiffs' Demonstrative B, do you see any native ads there at the bottom?

- A Yes, I do. Those are the ads to the left of the highlighted box. So there's a 3-by-2 grid of various people holding shoes or applying makeup. Those are the native ads.
- Q And is that -- the red box, does that encapsulate the native ads that you just identified?
- A Yes, it does.

- Q And just using those native ads as an example, could you explain to the Court why native ads aren't a reasonable substitute for display ads.
- A Yeah. So if we use this example, there's a number of reasons. And it wouldn't even be limited to this example. Based on my experience, this is true all the time.

Native advertisements -- the purpose of a native advertisement is to look like editorial and to elicit a

click from a user by teasing some content or message. They don't contain brand images.

So if you use this example on the right-hand side, it looks like a Microsoft ad. It has Microsoft branding. It talks about Microsoft products. The native ads don't show a product image. They don't serve a branding purpose like -- you wouldn't use a native ad for branding.

- Q And what do advertisers, based on your work at the agencies, use native ads for?
- A So native advertising is -- when I've used it, it's primarily for B2B advertising, or where you're trying to essentially educate a user about a very complex product or a service.

So take something like health insurance. For health insurance, you would have a native advertisement which goes to a page which then provides a lot more detail and information about a product.

- Q And you used the term "B2B." What does that stand for?
- A So B2B is business to business.
- 20 Q As opposed to business to consumer?
- 21 A Yeah, which is B2C.
 - MR. TEITELBAUM: All right. We can take down that demonstrative.
- 24 BY MR. TEITELBAUM

Q Are you familiar with a type of advertising called

- 1 | in-app or mobile app advertising?
- 2 A Yes, I am.
- 3 MR. TEITELBAUM: And if we could bring up
- 4 | Plaintiffs' Demonstrative E, which also has no objection.
- 5 BY MR. TEITELBAUM
- 6 Q Does Plaintiffs' Demonstrative E look like a fair and
- 7 | accurate example of an in-app or a mobile app advertisement?
- 8 A Yes, it does.
- 9 Q And based on your work in the industry, could you
- 10 | explain to the Court, to what degree is mobile app
- 11 | advertising a reasonable substitute for buying display
- 12 advertising on a website like on a newspaper?
- 13 A It's not a reasonable substitute. There's a number of
- 14 || reasons for that. Mobile app advertising has different
- 15 | characteristics to it which put it in its own separate
- 16 | category.
- 17 Q And could you enlighten us on what those categories
- 18 | are?
- 19 | A So, first of all, for mobile app advertising, the
- 20 | mobile app needs to deploy something called an SDK, a
- 21 software development kit. So that's the first thing that
- 22 | needs to occur. There's also some measurement issues with
- 23 | mobile app advertising, but I won't get into that.
- 24 The other bits about mobile advertising is -- and
- 25 | I could talk for a lot about this topic. There are certain

data attributes that are only available in mobile apps that aren't normally available anywhere else. So you take something like location data. Location data is unique to mobile app advertising because mobile apps can -- if a user consents, can track a user's location, and that provides more information that could be relevant to the advertiser.

The other thing is that some mobile apps purely exist as mobile apps. They don't exist as websites or anything else. They might have unique ad formats that are only available in the app. So you take mobile gaming, which is always or frequently app-based.

The advertising in a mobile app is not a display ad; it might be more natively integrated into the app experience. So it might be a compensated -- or like an element in the game that looks more like the brand or carries some brand imaging because it's a power-up that you could use in the game.

- Q Could you give us an example of that, if you know one?
- 19 A I mean, an example. So pick a mobile app game. Like,
 20 Candy Crush would have unique attributes to it relative to
- 21 other types of advertising.

- Q And you mentioned some differences about measurement or measurement issues. Could you expand on that a little bit, please.
- A So for mobile advertising to work, you need to have an

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SDK, a software development kit, to be deployed. To actually track the performance of mobile advertising, you need to use something called conversion APIs -- the industry abbreviation calls them CAPI -- to actually track the performance and measurement of that.

And so those sorts of things become somewhat of a barrier to the effectiveness or using mobile advertising because those come -- while you have benefits of additional data, the measurement trade-offs can create other problems or concerns.

- Q And you alluded to -- as an example, I think, on location data, can you give the Court an example of how a mobile app might use location data in advertising.
- A So the best example to use -- let's take a ride-sharing app. So a ride-sharing app requires you to consent to sharing your location for the entire utility of the app because it needs to know where to pick you up from and where to deliver you to.

Because it has that information about your location, I can use that information as an advertiser to actually not only place an ad in the app but also place a better-informed ad in that app. So if I know the destination you're going to and it's near a retailer that might be my client, I can make you aware of a retail offer that might be at that retailer. You know, perhaps even

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encourage you to make a stop there before you get to your final destination.

Q Now, let's move on and talk about just the distinction between digital advertising versus advertising that has nothing to do with the internet.

So to what degree does advertising outside the internet, is that a reasonable substitute for digital advertising?

A So advertising that's not on the internet -- which in the industry we would call traditional advertising -- is not a reasonable substitute for digital advertising.

And the reason why is the advertising industry as a whole is much more focused on using data to inform when and where you place your ads. There's also limits on the availability of inventory in traditional advertising.

There's also significantly different price thresholds and barriers to being able to purchase traditional advertising.

So on -- let's take TV as an example. You might need a significantly higher budget to purchase TV advertising because it's not -- when we were talking about social media before, you can't buy a TV advertisement with your credit card.

Q Let's move to a different topic. From your work at media agencies, are you familiar with something called "header bidding"?

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A Yes, I am.

- 2 MR. TEITELBAUM: And I'm not going to ask the 3 witness to retread all the same ground, Your Honor. I'll
- 4 move on to something specific.
- 5 BY MR. TEITELBAUM
- Q In the context of -- and have you worked on campaigns that used header bidding to purchase display ads?
- 8 A Yes, I have.
- 9 Q And in the context of digital advertising, are you
- 10 | familiar with a term called "latency"?
- 11 A Yes, I am.
- 12 \parallel Q Could you please explain to the Court what latency is.
- 13 A So latency is the time experienced by a user from when
- 14 | they click on a link to go to a webpage for that page to
- 15 load, displaying both the content and the advertising. And,
- 16 | specifically, latency, you want low latency.
- So latency means -- the lower the latency means
 the faster the ad and the content will render so that both
 the user sees the content they want but also has an
- 20 opportunity to see the ad that you want them to see.
- 21 | Q Does latency matter to advertisers in any fashion?
- 22 A So yes, in a broad sense because advertisers, at the end of the day, want their ads to be seen by users.
- In the advertising industry -- and I have -- for many of my clients, we focus on something called

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1 viewability. And viewability means -- it's not just enough 2 to buy an ad; you want it to be viewed by a user. And so 3 the lower the latency, the more likely the ad will be 4 viewable and, therefore, the advertiser will achieve their 5 business outcomes. 6 Based on your work on advertising campaigns, to what 7 extent has header bidding posed latency problems for your 8 campaigns? 9 So from my experience, I have not -- when header 10 bidding was introduced, I didn't see any degradation in 11 performance on viewability, which is the ultimate metric of 12 the effect of latency. I also didn't see any negative 13 impact on campaign performance as a result of the introduction of header bidding. And I would have seen an 14 impact in campaign performance if latency had become an 15 16 issue. 17 How would that information about performance from 18 latency problems have come to you? How would you have 19 learned about that? 20 So one of -- in the advertising industry, we use tools called third-party verification tools, otherwise referred to 21 22 as 3PV. They're provided by independent third parties. 23 Those independent third parties measure viewability; so if 24 the ad was seen and loaded.

And so with third-party tools, I would have become

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Direct Examination - J. Lowcock

aware of latency issues because my viewability scores would have plummeted, and clients demand that we achieve certain viewability levels. I believe you mentioned before that one of the roles that you served at Universal McCann was as the global brand safety officer; is that right? Yes, that is correct. Could you tell the Court a little bit more about what your specific responsibilities were in that role. So as global brand safety officer, I was responsible for the integrity and security of where and how ads appeared. That included ensuring ads appeared in environments that were brand-safe, that those ads were not served to bots or in fraudulent environments or on illegal content. And could you give a few examples of the types of issues that you just described, just at a more concrete level. So, I mean, some of the issues that can occur that, you know, we were working to prevent is ads could appear on publishers or websites that were subject to the Office of Financial Asset Control; so OFAC lists of sanctioned countries. There's instances of ads appearing on websites that feature piracy or illegal content or ads for restricted

categories, for example, alcohol being served to minors.

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Direct Examination - J. Lowcock

And based on your work both as the global brand safety officer and on advertising campaigns using header bidding, to what degree did header bidding pose more issues in those areas compared to other ways of purchasing display advertising? Header bidding didn't open up any more security issues in that regard compared to any other bidding. In fact, one of the things I didn't speak about is one of the other big concerns that we're trying to prevent is advertising served fraudulently to bots. So bots manufacture traffic that's not real humans visiting a website. So it will load the page to load the ad so the bad actor gets paid. And header bidding actually makes it easier for us to prevent our ads being served to bots because we can detect that it's a bot before the page loads as opposed to after the page and the ad loads. Could you give the Court an overview as to what some of the tools are that are available to counteract some of these brand safety and security issues you've described. So there's a number of companies that provide third-party verification tools. There's companies like DoubleVerify, otherwise referred to in the industry as DV. There's another company called Integral Ad Science, otherwise known as IAS, that provide these tools that are

used by agencies. Oracle used to run one until Oracle shut

1	down that business unit.
2	Q Are there any industry standards that govern how
3	digital advertising is supposed to work or standards that it
4	should adhere to?
5	A So yes, there's industry standards. The MRC, the Media
6	Ratings Council, defines a lot of standards when it comes to
7	security and fraud and bot detection.
8	Q What about the IAB? Does it have any standards?
9	A So the Interactive Advertising Bureau, the IAB, also
10	has standards. The IAB standards typically involve defining
11	the standard size metrics for advertising. By size metrics,
12	I mean the size of the rectangles and boxes on a screen.
13	MR. TEITELBAUM: Thank you, Mr. Lowcock.
14	No further questions on direct.
15	THE COURT: All right.
16	Ms. Rhee?
17	MS. RHEE: Thank you, Your Honor. If I could get
18	some assistance in just passing the binders out.
19	THE COURT: All right.
20	(Brief recess taken.)
21	THE COURT: Ms. Rhee.
22	MS. RHEE: Thank you, Your Honor.
23	CROSS-EXAMINATION
24	BY MS. RHEE:
	l

Good afternoon, Mr. Lowcock.

- A Good afternoon.
- 2 | Q My name is Jeannie Rhee. I represent, with others
- 3 here, Google, and we will spend a little bit of time this
- 4 | afternoon asking you questions. Okay?
- 5 | A Okay.

- 6 Q Now, this is your second time testifying for the United
- 7 States in less than a year, right?
- 8 A Yes.
- 9 Q And on the direct examination by the government, you
- 10 defined "display advertising" as the rectangles or boxes
- 11 \parallel that appear on a webpage.
- 12 Did I get that right?
- 13 A Yes.
- 14 | Q And you defined "social advertising" as advertising
- 15 | that is bought on social media platforms, such as Facebook;
- 16 | is that right?
- 17 | A Yes.
- 18 Q Now, I want to actually -- and if I could get the
- 19 assistance of the government to pull back up the Plaintiff's
- 20 Demonstrative F.
- 21 Do you see that in front of you, Mr. Lowcock?
- 22 | A Yes.
- 23 \parallel Q Oh, I'm glad you have to put your glasses on as well.
- 24 You see there that the demonstrative Plaintiff's F
- 25 shows a laptop or a desktop; is that right?

A Yes.

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- 2 | Q Okay. And on that desktop, you see the top there is a
- 3 | https/www.facebook.com. Is that right?
 - A Yes.
- 5 | Q That is a website or webpage, isn't it?
- 6 | A Yes.
- 7 | Q And if we could just click back out of it.

The things labeled "ad spaces" in the green are rectangles or boxes that appear on that webpage.

- 10 Can we agree?
- 11 **|** A Yes.
- 12 | Q Now, the primary user behavior on social media you've
- 13 previously testified is to scroll through what you describe
- 14 ∥ as a feed; is that right?
- 15 MR. TEITELBAUM: Objection as to asking about
- 16 previous testimony.
- 17 THE COURT: Well, this is cross-examination.
- 18 **∥** That's all right. Overruled.
- 19 THE WITNESS: Yes.
- 20 BY MS. RHEE:
- 21 Q And a feed is a page. The user scrolls through the
- 22 | social media page; is that right?
- 23 A Not necessarily.
- 24 | Q Why do you say "not necessarily"?
- 25 A Because a feed can occur -- in this example, it's a

- website. Facebook operates an app. Instagram operates an app. The feed occurs within an app as opposed to a webpage.
- 3 | Q Okay. But social media companies and social media
- 4 | sites, like Facebook, operate both websites and apps; is
- 5 | that right?
- 6 A But not all social media platforms operate websites.
- 7 | Q For example, here, Facebook operates a website; is that
- 8 | right?
- 9 A This is correct, yes.
- 10 Q TikTok operates a website; is that right?
- 11 A Only recently.
- 12 | Q Is that right?
- 13 A Yes. But I would say -- again, I'd say only recently.
- 14 | It was primarily an app first.
- 15 | Q And you've previously testified that advertising that
- 16 | is inserted on a social media page is similar to display
- 17 | advertising, correct?
- 18 A I would say it's similar but it's not the same.
- 19 Q You've testified that it is similar, yes?
- 20 A Similar but not the same.
- 21 | Q Well, let's actually have you look at your search trial
- 22 | testimony, and I will direct you to Tab 6 where I have
- 23 | excerpted the pages where you previously testified.
- So if you could, go to the bottom of that first
- 25 page in your tab, line 25, and all the way to the next page

- 1 on line 28.
- 2 | A Sorry. Which section are you referring to?
- 3 0 Tab 6.
- 4 A Tab 6. I don't have a line 28.
- 5 | Q I'm sorry?
- 6 A I don't have a line 28.
- 7 Q No. I said it starts on the bottom of the first page
- 8 on line 25 --
- 9 | A Okay.
- 10 Q -- and it goes to the next page through line 8.
- 11 Do you see it now?
- 12 **|** A Yes.
- 13 Q Now, when you were asked, "And in your view, can social
- 14 | advertising effectively be used in the place of search
- 15 ∥ advertising?" you said no.
- 16 And then the follow-up question was, "Why not?"
- 17 And your answer was "The primary user behavior on
- 18 | social media platforms is to scroll through what's described
- 19 as a feed. So it's a page. You scroll through the page.
- 20 Advertising is inserted in the page similar to display
- 21 advertising."
- 22 Do you see that?
- 23 A Yes, I do.
- 24 | Q Now, you did not qualify your answer when you
- 25 | previously testified under oath that it's similar but not

1 the same. You just answered they're similar, correct? 2 I did not qualify the answer at the time because these 3 questions were in relation to the comparison between social 4 media advertising and search advertising. 5 But your answer to that question did not qualify that 6 they're similar but not the same, correct? 7 Correct. Α 8 See the page in front of you. 9 Correct. And, again, I gave you the context for the 10 reason why I did not qualify it at the time. 11 Now, you further went on to testify that, in fact, the 12 vast majority of advertising on social media is display. 13 Do you remember that testimony? 14 A No, I do not. 15 MR. TEITELBAUM: Objection. These are just 16 questions about past testimony as opposed to just factual 17 questions. Improper impeachment, Your Honor. 18 THE COURT: I'm not fond of this. Just ask the 19 direct question to see what the answer is. If it's 20 inconsistent with prior testimony, then you can impeach. 21 MS. RHEE: Absolutely, Your Honor. 22 BY MS. RHEE: 23 Mr. Lowcock, the vast majority of advertising on social 24 media is display, is it not? 25 No, it's not.

- Q Well, I want to direct your attention to Tab 7. Again, it's your search trial testimony under oath. And I have, to facilitate everybody here and speed it up, excerpted the pages.
- So I want to direct your attention in particular to line 13 through 14.
- 7 And do you see your testimony here?
- 8 A Yes, I do.
- 9 Q Okay. And you testified under oath in that trial "So the vast majority of advertising on social media is
- 11 display." Correct?
- 12 **|** A Yes.
- 13 | Q I read your testimony correctly?
- 14 A Yes. Reading it now. I can see that.
- 15 Q Now, staying on the topic of social media, given your
- 16 | 15-plus years of experience over this industry, you surely
- 17 | must be aware about how prominent and how popular social
- 18 | media as become, correct?
- 19 **|** A Yes.
- 20 Q In fact, you must be aware that seven out of ten U.S.
- 21 | adults use Facebook?
- 22 | A Yes.
- 23 Q And you must be aware that, even though TikTok is so
- 24 relatively new, one in three U.S. adults already use TikTok?
- 25 | A Yes.

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Cross-Examination - J. Lowcock

And because of social media's popularity, when you were at Universal McCann -- I'm just going to refer to it as UM as you did in your direct testimony if that's okay. Α Yes. When you were at Universal McCann, you had no clients that did not purchase social ads; is that correct? That requires qualification because you're describing social ads broadly, whereas I would clarify that there were clients that did not buy ads on certain social platforms. So they might have bought ads on Facebook, but they might not have bought ads on TikTok or Snap or Pinterest, as examples. But when you testified in the search trial, the question was "Do you have any clients that do not purchase social ads?" And your answer was no, period, flat. Correct? That was correct, but I also qualified it at the time and explained that I have certain clients that did not buy ads on TikTok for certain political reasons. When you were asked the question --THE COURT: You don't need to repeat it. understand. BY MS. RHEE:

Amazon advertising over the past five to seven years,

Now, when you were at UM, you watched the growth of

1 correct? 2 Correct. 3 Now, your clients at that time, or when you were at UM, 4 were investing more and more money in Amazon advertising, 5 correct? 6 Not necessarily correct. 7 Well, let's go to Tab 9, which is, again, your search 8 trial testimony under oath. And I have excerpted the 9 relevant page for you, and I direct your attention to line 2 10 through 9, 2 through 9. 11 Do you see? 12 Α Yes. 13 And the question was "You pretty much had a front row 14 seat to watching the growth of Amazon advertising over the 15 last five to seven years, correct?" And the answer was yes, period, nothing else. 16 17 Correct? 18 I will note that in lines 10 to 12, I noted that some 19 clients were investing more. 20 Right. But the question was "You pretty much had a 21 front row seat to watching the growth of Amazon advertising 22 over the last five to seven years, correct?" And your 23 answer was yes, correct? 24 And, again, I would say that --

THE COURT: You need to answer the question.

25

You

- 1 don't need to editorialize it. It's a very straightforward
- 2 | question.
- 3 BY MS. RHEE:
 - Q Yes?

- 5 A Repeat the question.
- 6 \mathbb{Q} Happy to repeat the question.
- 7 "You pretty much had a front row seat to watching 8 the growth of Amazon advertising over the last five to seven 9 years, correct?"
- 10 **|** A Yes.
- 11 Q And just a few years ago, TikTok had no advertising at
- 12 | all, correct?
- 13 A Correct.
- 14 \parallel Q And now at UM, when you were there, your clients' ads
- 15 | spend on TikTok grew in the last three years that you were
- 16 | at IPG when you testified during the search trial, correct?
- 17 A Correct.
- 18 Q Your clients at UM, their ad spend on Instagram also
- 19 grew while you were there, correct?
- 20 A Correct.
- 21 | Q Now, you very helpfully answered questions on the
- 22 government's direct about what's called the marketing
- 23 | funnel.
- 24 Do you remember that testimony?
- 25 | A Yes.

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awareness.

Cross-Examination - J. Lowcock

And you have described the steps of the marketing funnel or the consumer journey, which is another word for marketing funnel, yes? Correct. You've described the steps as follows: Driving awareness, capturing intent, driving consideration, and then ultimately driving a decision to purchase. Have I got that right? Α Correct. So now let's turn to a visual depiction of the funnel that just graphically shows the consumer journey that you just testified to. And if we could publish what is going to be marked as Lowcock Demonstrative 1. Thank you. Now, you've seen this pretty simple visual depiction of the marketing funnel before, haven't you? Yes. And you agree with this as a graphical depiction of the testimony that you just gave, yes? Yes. Now, display advertising is primarily intended to drive or create demand and drive awareness; is that right? I would list it as primarily intended to drive

- Q So let's go to Tab 15. Again, this is your search
 trial testimony under oath, and I excerpted the page. And I
 just want to direct your attention to line 12.
- 4 Do you see that?
- 5 A Yes.
- Q Okay. And here you testified under oath, "Display advertising is primarily intended to drive or create demand
- 8 and drive awareness, correct?
- 9 A Yes.
- 10 Q Okay. Now, in other words, display advertising is the
- 11 upper half of this marketing funnel; is that right?
- 12 | A Yes.
- 13 Q Okay. Display advertising can create awareness,
- 14 | correct?
- 15 **|** A Yes.
- 16 Q Good at that, yes?
- 17 | A Yes.
- 18 Q And display advertising can create interest or
- 19 consideration, correct?
- 20 A Yes.
- 21 Q Now, similarly, social advertising can create
- 22 | awareness, correct?
- 23 | A Yes.
- 24 Q And social advertising can create interest and
- 25 consideration as well, correct?

1 Α Yes. So now if I could show as a demonstrative Lowcock 2. 2 3 It's the same marketing funnel that we've been taking about. 4 And now there is a red box that just puts into this picture 5 the testimony that you just gave about where display and 6 social ads fall in this marketing funnel, yes? 7 So I would say yes, but I would say that they're imperfect substitutes. 8 9 Well, that wasn't the question. The question was this 10 picture memorializes the testimony that you just gave, 11 correct? 12 Α Yes. 13 Okay. So now let's turn to substitutes. 14 Based on your direct examination by the 15 government, I take it you're familiar with the term "substitute," yes? 16 17 Yes. 18 And, in fact, when you testified in the search trial, 19 you were asked to define that very term. 20 Do you remember that? 21 No, I do not. 22 Well, let's turn to Tab 20. 23 Again, this is the excerpt of your search trial 24 testimony under oath. And I want to direct your attention

to the bottom of the first page, starting on line 20.

1 And the question was "Do you recall you used the 2 word 'substitute' or 'substitutable' this morning?" And your answer was "I recall that came up in 3 4 conversation." 5 Do you see that? 6 Α Yes. 7 And then the next question was "Do you remember at your 8 deposition you were asked to define that term?" 9 And you said yes. 10 Do you see that? 11 Yes. 12 Okay. And then in an exercise much like this one, you were asked whether or not it would help refresh your 13 14 recollection if you saw the transcript of your deposition. 15 Do you see that? 16 Α Yes. 17 And then upon looking at that, you answered that 18 it does refresh your recollection. Yes? 19 Yes. 20 Okay. And what you had your memory refreshed was that 21 "substitutable," as you defined it under oath, was a shift 22 of budget from one to another, and then you clarified "based 23 on the purpose I'm trying to achieve, yes." 24 Have I got that right?

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Yes.

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Universal McCann.

Cross-Examination - J. Lowcock

Okay. So you define the term "substitute" or "substitutable" as a shift of budget from one ad format to another based on the purpose you are trying to achieve; is that right? Α Yes. Now, the driver of whether to substitute or shift advertising spend from one format to another is sometimes referred to as ROI, or return on investment, agreed? Α Yes. And the goal is to shift or substitute one ad type with another in order to try to achieve the best possible ROI for an advertiser; is that right? Α Yes. And while you were at UM, you, in fact, trained employees to move between channels or ad formats, as you testified to during your direct examination, in order to optimize poor performance, correct? Yes. And at UM, you heard of shifting ad spend from display to social, correct? Yes. Now, Mr. Lowcock, I want to turn your attention to another of the companies within IPG, which you testified on direct examination is the holding company that also held

Is that right?

A Yes.

- 2 | Q And you're familiar with the other companies that were
- 3 part of the IPG family?
- 4 A Yes, broadly.
- 5 | Q That includes a company called Initiative, correct?
- 6 A Correct.
- 7 | Q And Initiative has an optimization engine that you're
- 8 | familiar with, correct?
- 9 A Familiar with, yes.
- 10 Q Okay. And that optimization engine simultaneously
- 11 recommends budget reallocations away from underperforming
- 12 channels to outperforming channels for more impactful
- 13 | business outcomes and better ROI versus in-channel
- 14 | optimization only, correct?
- 15 | A Correct.
- 16 | Q And the goal of that optimization engine is to shift or
- 17 | substitute one ad type with another in order to achieve the
- 18 | best possible ROI, yes?
- 19 A Subject to client approval, yes.
- 20 Q And when you say "subject to client approval," the
- 21 client here is the actual advertiser or the brand, correct?
- 22 A Correct.
- 23 | Q In the hypothetical that the government walked you
- 24 | through, that would be, for example, a car manufacturer that
- 25 | has a brand-new make or model that is just rolling off the

- 1 | assembly line; is that right?
- 2 | A Correct.
- 3 Q Now, you yourself are not and have never been an
- 4 advertiser, yes?
- 5 \parallel A I'm not sure I understand that question.
- 6 Q You are not the advertiser. You are not the car
- 7 | manufacturer, right?
- 8 A I'm not a car manufacturer, but I have bought
- 9 advertising on behalf of myself and family and friends as an
- 10 ∥ advertiser.
- 11 Q You bought on behalf of others who were the ones who
- 12 | actually wanted to advertise. Is that your testimony?
- 13 | A Yes.
- 14 | Q Okay. That doesn't make you an advertiser, does it?
- 15 A Like, my parents run a store. I've bought ads for that
- 16 store as an advertiser.
- 17 Q Okay. But that would be your parents' store, and that
- 18 would make them the advertiser, correct?
- 19 A I'm a co-owner of the store, but... so we can argue
- 20 semantics.
- 21 | Q Thank you for that clarification.
- 22 Turning back to the original train of thought
- 23 | before we asked you to unintentionally divulge your parents'
- 24 | business, the qualification that you gave to the answer
- 25 about substitution or shift was it was at the client's

1 direction.

2 Do you remember that?

A Yes.

3

- 4 Q And we agreed that the client here is the advertiser; 5 is that right?
- 6 | A Yes.
- Q That's because, ultimately, it's the client here, the advertiser, that has control and retains control; is that
- 9 ∥ right?
- 10 | A Yes.
- 11 Q So let's actually now turn to a concrete example and 12 not a hypothetical example of a car manufacturer.
- While you were at UM, one of the U.S. federal
 agency clients that you had and oversaw the campaigns and
 accounts for was the United States Postal Service, correct?
- 16 | A Yes.

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- Q And UM advised on multiple occasions that USPS shift spend between display and social ads, correct?
- MR. TEITELBAUM: Your Honor, I would just object on scope. If they want to go outside the scope, they should have to ask nonleading questions.
 - MS. RHEE: This is cross with respect to the testimony by this witness of substitution and reasonable substitution.
- 25 THE COURT: Right. I'm going to overrule the

1 objection. It's all right. BY MS. RHEE: 2 3 Okay. So do you remember the question? 4 Can you repeat the question? 5 Okay. While you were at UM, UM advised on multiple 6 occasions that USPS shift ad spend between display and 7 social, correct? I believe that would be true. 8 9 Okay. So let's turn to one actual example. Okay. One 10 of the campaigns that UM worked with USPS on was their 11 political mail campaign. 12 Does that ring a bell? 13 That rings a bell. 14 Okay. So now if I could direct you to Tab 27, which is 15 in your witness binder in front of you. 16 MS. RHEE: And at this time, Your Honor, we would 17 move to admit Tab 27, which is DTX 994. 18 THE COURT: Hold on a second. I want to make 19 sure. Were going to have some confusion in this case at 20 some point. 21 It's Tab 27 in the book. It has DTX 994 on the 22 bottom. 23 MS. RHEE: Correct. And so the --24 THE COURT: Those are the numbers we're going to 25 use for the trial?

1 MS. RHEE: Correct. That's correct. I was just 2 using the tab reference to direct the Court, the witnesses, 3 and the government's attention to the right place. 4 THE COURT: And there's no objection to 994; is 5 that correct? 6 MR. TEITELBAUM: Your Honor, only that this is 7 from the federal agency advertisers who are out of the case based on --8 9 THE COURT: Oh, but that's still relevant, I 10 think, to the issues in the case. 11 So I'll overrule the objection, and 994 is in. 12 Go ahead. 13 (Defense Exhibit Number 994 admitted into evidence.) 14 MS. RHEE: Okay. 15 Help. That's really small. 16 THE COURT: Does any of this have to be redacted? 17 MS. RHEE: No, Your Honor, not this one. BY MS. RHEE: 18 19 Okay. Now, you see the exhibit in front of you, 20 Mr. Lowcock? 21 Yes. 22 Okay. And you see the bottom of that first page, it is 23 an employee from UM writing to a representative of USPS. 24 And it begins, "Hi, USPS," very helpfully. 25 Yes.

1 Okay. And you see that this exhibit states, "As you 2 may recall, a few weeks ago we made the recommendation to 3 shift funds from display into social for political mail." 4 Is that right? 5 Α Yes. 6 Okay. So that is an example of substitution at work, 7 shifting from display into social, correct? 8 There's a number of qualifiers, though, in that 9 recommendation, which are worth noting. So the first one 10 is --11 Mr. Lowcock, if you want to clarify, you will be given 12 the opportunity. My question is have I got the text that 13 was sent to USPS with the recommendation to shift funds --14 in other words, ad spend -- from display into social with 15 respect to a campaign? Is that right? 16 I would say that you've highlighted the text, but it 17 omits important facts to the recommendation. 18 THE COURT: Ms. Rhee, just move on, please. 19 MS. RHEE: Okay. BY MS. RHEE: 20 21 Let's go to another example. And if I could direct 22 your attention to Tab 28. 23 MS. RHEE: And here, Your Honor, for the record, 24 that is DTX 1340.

THE COURT: Any objection to 1340?

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1	MR. TEITELBAUM: If I could have just one moment,
2	Your Honor.
3	THE COURT: Okay.
4	MR. TEITELBAUM: Your Honor, just as to relevance
5	for this particular one.
6	MS. RHEE: Your Honor, this is another example of
7	substitution at work.
8	THE COURT: Yup. I'm permitting it in.
9	1340 is in.
10	(Defense Exhibit Number 1340 admitted into evidence.)
11	MS. RHEE: Okay. And if we could publish it and
12	blow it up again for the older eyes in this audience.
13	And, Your Honor, with respect to the Court's
14	question about redaction, here you will see only with
15	respect to amount.
16	THE COURT: I see. That's fine.
17	MS. RHEE: Okay.
18	BY MS. RHEE:
19	BY MS. RHEE: Q Now, Mr. Lowcock, you see this exhibit published in front of you, correct?
20	front of you, correct? A Yes. Q Now, this is another email from UM to USPS recommending as a potential optimization for this time the avoid
21	A Yes.
22	Q Now, this is another email from UM to USPS recommending
23	as a potential optimization for this time the avoid
24	surcharge campaign, shifting a redacted amount from social
25	into display.

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1	Do you see that?
2	A I see the text highlighted, yes.
3	Q Okay. Now, avoid surcharge was a USPS campaign to show
4	or make aware to the public that the surcharges FedEx and
5	UPS added to some of their prices were based on rising fuel
6	costs.
7	Do you remember that?
8	A No. I wasn't intimately involved in this campaign.
9	Q Okay. But that sounds like the kind of thing that you
10	talk about when you're talking about campaigns; is that
11	right?
12	A Yes.
13	Q Okay. And you see just at the top of that email the
14	USPS approves that shift, correct?
15	A Yes.
16	Q Okay. And, in fact, the response is, "Hi, Laura, let's
17	make the shift into display."
18	You see that?
19 20	A Yes. Q Okay. Now, you recall during your direct examination
	Q Okay. Now, you recall during your direct examination
21	being asked by the government about native ads.
22	Do you recall that?
23	A Yes.
24	Do you recall that? A Yes. Q Okay. Now, I want to show you what's not got a DTX number but I think is relevant here. Tab 29. And this is
25	number but I think is relevant here, Tab 29. And this is

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Cross-Examination - J. Lowcock

1 yet another communication -- at this point, in slide form --2 to the USPS. 3 Do you see that? 4 Α Yes. 5 And it's the FY22. And that's fiscal year, right? 6 Yes, I assume so. 7 Okay. And it's called the travel mail recommendation. Q 8 Do you see that? 9 Α Yes. 10 Okay. Now, I want to direct your attention in 11 particular to page 17. 12 Now, you see the title of the slide presentation 13 to USPS on page 17 of this deck is called "Leverage upper 14 funnel tactics to reach the most qualified audience and 15 drive leads with outcome-based marketing." 16 Do you see that? 17 MR. TEITELBAUM: Objection. Hearsay, and reading 18 from a document that's not in evidence. 19 THE COURT: Unless this witness had something to 20 do with the production of this, I think it is problematic. 21 And this is not coming in as an exhibit? 22 MS. RHEE: It is not coming in as an exhibit, Your 23 Honor. 24 THE COURT: All right. I think we'll move on,

25

then.

1	I'll sustain the objection.
2	MS. RHEE: Your Honor, this is cross with respect
3	to his prior testimony about native advertising.
4	THE COURT: Well, he can talk about native
5	advertising. You can ask him leading questions but not by
6	having him look at this.
7	BY MS. RHEE:
8	Q So native advertising is also an upper funnel tactic,
9	correct?
10	A It really depends, but yes.
11	Q And, in fact, again, to USPS, you recommended using
12	Yahoo's DSP to place native ads or, here, native units in
13	order to drive upper funnel tactics, correct?
14	A I didn't prepare this document; so all I can say is
15	that UM might have recommended it, but it was not my
16	recommendation.
17	Q Well, when you were at UM, you oversaw the key
18	accounts, including USPS, correct?
19	A But I didn't review individual materials of everything
20	that was submitted.
21	Q Well, is the answer yes or no?
22	A So yes, but "oversaw" needs to be defined.
23	Q Are you disagreeing with the recommendation that your
24	team gave to USPS about using native advertising in order to
25	drive upper funnel tactics?

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No.

Cross-Examination - J. Lowcock

Having not read the entire document and not knowing the context of it, I can't approve or disagree with the contents. You hired that team, right? Α No. Okay. You just oversaw them? So account teams are overseen by an account lead who Α hires that individual team members. All right. Let's move on. You consult independent research services like EMARKETER in the course of your work, correct? Α Yes. And you consider EMARKETER to be a reliable source, do you not? Yes. And, now, would it come as a surprise to you that EMARKETER captures and publishes data on U.S. display ad revenue by company? That sounds like the kind of --That sounds like something that EMARKETER would publish. Okay. And are you aware that, when EMARKETER publishes data about U.S. display ad revenue by company, it includes within that definition of display ad revenue Snapchat? Are you aware?

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Cross-Examination - J. Lowcock

1 0 Pinterest? Are you aware? 2 No. 3 Twitter? Are you aware? 4 Α No. 5 0 TikTok? Are you aware? 6 Α No. 7 Amazon? Are you aware? Q 8 Α No. Meta or Facebook? Are you aware? 9 10 No. 11 But, again, you consider EMARKETER, which is an 12 independent third-party outfit, to be a reliable source of 13 information, correct? 14 Within reason, yes. Well, you remember when you testified in the search 15 trial, you were asked that very question. And you answered 16 17 that you consider EMARKETER to be a reliable source without 18 qualification. 19 Do you remember that? 20 MR. TEITELBAUM: Objection. If there's going to 21 be impeachment, he should have a chance to see his 22 testimony. 23 MS. RHEE: You can't have it both ways. 24 THE COURT: With a jury, this might be important; 25 with me, it's not. These subtle points, I can draw my

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Cross-Examination - J. Lowcock

1 conclusions. All right? 2 Let's move this along. 3 BY MS. RHEE: 4 Now, Mr. Lowcock, you're aware that Google's ad tech 5 tools support multiple ad formats and platforms, correct? 6 Yes. 7 Okay. So, for example, an advertising buyer or someone on whose behalf you might be buying ads can use DV360 to 8 9 purchase ads over multiple formats, including display, 10 correct? 11 Yes. Α 12 Q Native, yes? 13 Α Yes. 14 In-app ads, yes? 15 Yes. Α 16 Video, correct? 17 Yes. 18 And CTV, or connected television, yes? 19 Yes. 20 Okay. Similarly, you're aware, correct, that 21 advertising buyers can also use Google ads to purchase ads 22 on all of those exact same formats, correct? 23 Provided they have the creative assets to execute those 24 ads, yes. 25 Now, other demand-side platforms also offer

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- ad tech tools that offer transactions across multiple
 channels and formats as well, right?

 A Yes.

 Q And when you were -
 MR. TEITELBAUM: Objection as to the scope just as
 to the different types of ad tech tools and the nature of
 them. We didn't cover that on direct.
- 8 THE COURT: Overruled.
- 9 BY MS. RHEE:
- 10 Q Now, when you were at UM, you certainly didn't just use 11 Google tools, correct?
- 12 A We used multiple tools.
- 13 Q Okay. So, for example, you used Trade Desk tools,
- 14 | right?
- 15 **|** A Yes.
- 16 Q They're a very popular buy-side tool platform, right?
- 17 | A They're one of many populars.
- 18 Q You used them, didn't you?
- 19 A We used them, yes.
- 20 Q And you used them a lot?
- 21 A We used them. I wouldn't say a lot.
- 22 Q Okay. Now, you are aware that Trade Desk also
- 23 | transacts video, correct?
- 24 A Yes.
- 25 | O CTV, yes?

- 1 | A Yes.
- 2 Q Display, yes?
- $3 \parallel A \qquad \text{Yes.}$
- 4 Q Native, yes?
- 5 A Yes.
- 6 Q And social?
- 7 A Yes.
- 8 Q Okay. Similarly, just not to belabor the point, you
- 9 also, when you were at UM, used Criteo, yes?
- 10 A Criteo, yes.
- 11 Q Okay. Now, similarly, Criteo transacts, in their tools
- 12 | across multiple ad formats, display, yes?
- 13 A Yes.
- 14 | Q Social, yes?
- 15 | A Yes.
- 16 Q Native, yes?
- 17 | A Yes.
- 18 | Q Online video, yes?
- 19 **A** Yes.
- 20 Q Okay. Now, Mr. Lowcock, you left UM right after the
- 21 | search trial testimony that you gave, yes?
- 22 A That's correct.
- 23 Q Okay. And then you went immediately to Quad, correct?
- 24 A That's correct.
- 25 Q All right. And Quad has a legitimate, valuable

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Cross-Examination - J. Lowcock

1	first-party dataset that it owns, yes?
2	A Correct.
3	Q And a key area of innovation that differentiates Quad
4	from its competitors includes its large data stack that
5	represents 89 percent of U.S. households, correct?
6	A Correct.
7	Q Now, the company and this is Quad matches
8	clients' data files with its curated database of households,
9	including addresses, to ensure that insights connect to real
10	consumers and not just faceless email addresses, yes?
11	MR. TEITELBAUM: Just renewing my scope objection,
12	Your Honor.
13	THE COURT: Sustained.
14	BY MS. RHEE:
15	Q Mr. Lowcock, you agree and you've previous
16	testified that ChatGPT will be disruptive to the
17	advertising industry, correct?
18	A Yes.
19	Q Now, finally
20	THE COURT: Is there an objection?
21	MR. TEITELBAUM: Scope, Your Honor.
22	THE COURT: I don't think we've heard a word about
23	ChatGPT.
24	MS. RHEE: We've heard about AI, Your Honor.
25	THE COURT: Well, we've heard about AI but not

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Chat particularly. All right.

Cross-Examination - J. Lowcock

2	BY MS. RHEE:
3	Q ChatGPT is a form of AI, is it not?
4	A It's an implementation of AI, yes.
5	Q Okay, Mr. Lowcock.
6	THE COURT: Okay. Go ahead.
7	BY MS. RHEE:
8	Q Now, the last thing I want to direct your attention
9	to and then I will wrap is you think that this
10	industry needs to rethink the importance of scale, correct?
11	A Yes.
12	Q And, in fact, you have advised marketers to let go of
13	their obsession of scale; is that right?
14	A Yes.
15	Q And that's because that obsession with scale is a thing
16	that enables a whole lot of bad actors to profit because we
17	assume that every page and site is worthy of an impression,
18	and that's not true, correct?
19	MR. TEITELBAUM: Objection as to scope. We didn't
20	talk about scale.
21	THE COURT: I think scale has been mentioned in
22	the trial, but explain to me what you mean by scale.
23	THE WITNESS: So in digital advertising,
24	there's and they used the term. There's an obsession
25	with buying digital ads everywhere. So every time there's a 110

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Cross-Examination - J. Lowcock

page, an ad should be appearing on the page. And the
industry is obsessed with buying ads on every page that
exists. And that's what they mean by scale because they
believe that gives them a better chance of reaching an
audience.
The counterpoint to that is the more inventory you
add to the pool, the more sites you add and the less actual
diligence that occurs in adding sites to that pool
introduces new and additional problems.
And so as the global brand safety officer, half of
my time was spent trying to identify problematic inventory
that was introduced into the ecosystem by ad platforms and
trying to prevent our ads from appearing
THE COURT: You're talking about tailoring.
THE WITNESS: Sorry?
THE COURT: You're talking about targeting or
tailoring rather than
THE WITNESS: It's about targeting, but it's
also there's websites out there that probably shouldn't
have ads on them at all because they are just not quality
sources of inventory or they're operated by bad actors or
people who should not be running websites.
THE COURT: Thank you.
MS. RHEE: No further questions, Your Honor.

THE COURT: All right.

Redirect Examination - J. Lowcock

1	Redirect?
2	MR. TEITELBAUM: Just briefly, Your Honor.
3	REDIRECT EXAMINATION
4	BY MR. TEITELBAUM:
5	Q Mr. Lowcock, you were asked some additional questions
6	about that Facebook page demonstrative. We don't actually
7	need to bring that back up, but I just have a couple of
8	questions to follow up on what you were asked on cross.
9	To advertise for someone to advertise on
10	Facebook, is there a requirement that they have a Facebook
11	page?
12	A Yes.
13	Q Does that same requirement exist for a newspaper
14	website, for instance?
15	A No.
16	Q And you were also asked a series of questions about
17	shifting spend from one channel to another. And, first of
18	all, just with respect to the USPS documents that you were
19	shown, did you see that you had authored any of those?
20	A I did not author those documents.
21	Q And then just more generally, could you please provide
22	the Court some additional context about what considerations
23	are important to you when you are thinking about whether to
24	shift spend from one channel to another.
25	A So there's multiple considerations. So do I have the

Redirect Examination - J. Lowcock

creative assets to activate on that channel? So you can't move to online video, for example, if you don't have video assets to activate.

In that question about social media, do I have a presence on the platform; so can I actually move it on that platform?

To earlier questions when you asked about direct and programmatic, if it's a direct buy, I might not actually be able to terminate or end that contract without paying a penalty. So I can't shift that money.

Those are sort of the primary things that would come to mind.

- Q Are there any -- just at the advertising agency itself, are there any staffing considerations that affect your ability to shift spend from one area to another?
- A Yes. So my programmatic -- the people that buy programmatic advertising are specialists in programmatic. My people that buy direct or television or out-of-home or radio, et cetera, are a different set of specialists.

Clients employ us on a contracted basis on a scope of work. I have certain people that are employed on an account with specialist skills in different areas. So if a client asks -- if something is not performing, I can't necessarily move money to a different channel because the client might not be paying for the talent or expertise

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Direct Examination - J. Avery

1	required to make that shift.
2	MR. TEITELBAUM: No further questions on redirect.
3	Thank you, Mr. Lowcock.
4	THE COURT: All right.
5	Any recross?
6	MS. RHEE: No, Your Honor.
7	THE COURT: All right. Does anybody anticipate
8	calling Mr. Lowcock again in the course of the trial?
9	MR. TEITELBAUM: Potentially just subject to
10	rebuttal, Your Honor.
11	THE COURT: All right.
12	Then, sir, I cannot allow you to come and watch
13	the proceedings. We're not going to get to rebuttal for
14	quite a few days. The main thing is keep in contact with
15	the government lawyers so that they can reach you. You're
16	not going back you have a British accent. Are you
17	THE WITNESS: I'm Australian, but I live on the
18	east coast of the United States.
19	THE COURT: Okay. That's fine. You're not
20	allowed to discuss your testimony with any witness who has
21	not yet testified, but you'll need to leave at this time.
22	Thank you.
23	THE WITNESS: Understood. Thank you.
24	THE COURT: Your next witness?
25	MR. WOLIN: Your Honor, the plaintiffs call James

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Direct Examination - J. Avery

1 Avery. 2 THE COURT: All right. 3 Thereupon, 4 JAMES AVERY, 5 Having been called as a witness on behalf of the plaintiffs 6 and having been first duly sworn by the Deputy Clerk, was 7 examined and testified as follows: 8 (Time noted: 4:40 p.m.) 9 DIRECT EXAMINATION 10 BY MR. WOLIN: 11 Good afternoon, Mr. Avery. Could you please introduce 12 yourself to the Court. 13 Yes. Hi. My name is James Avery. I'm the founder and 14 CEO of Kevel. When did you first become involved with internet 15 16 technology, Mr. Avery? 17 Yeah. So I started building websites basically as a 18 teenager, as a 12- or 13-year-old back in the mid-'90s while 19 in high school. 20 And what is your educational background? 21 Yeah. So I -- after building websites for a while, I 22 attended Middle Tennessee State University for one semester, 23 and then I left to go take a job at Dell Computer in, like, 24 '99, 2000. 25 What kind of work did you do at Dell?

- 1 I started out support and then was building tools for 2 the support team, and so kind of building programming, you 3 know, applications that helped the other support reps. 4 Between the time when you were working at Dell and the 5 time when you founded Kevel, what other experience did you 6 have in the technology industry? 7 Yeah, so after working at Dell, I went and worked at a 8 couple of other companies as a software engineer. And then 9 I started kind of independent consulting. So I would do 10 consulting with different kind of tech firms like Cintas and 11 Family Heritage Life and people like that, helping them 12 build kind of big enterprise software. 13 How long, Mr. Avery, did you work specifically in the 14 ad tech industry? 15 Yeah, so I started working at ad tech in roughly kind 16 of 2007, 2008. 17 So that's been over 14 years? 18 Yes. 19 So let's turn to your present company, Kevel. What is 20 Kevel's business? 21 Yeah. So at Kevel we help power publishers and 22 retailers, their ad platforms. So we help them serve 23 advertising across the internet.
- 24 | Q Who are Kevel's customers today?

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A Yeah. So our customers today are companies anywhere

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Direct Examination - J. Avery

- 1 from people like Ticketmaster to kind of large retailers and 2 different, you know, web apps and mobile apps. 3 Would you describe any of your customers as online 4 marketplaces? 5 Α Yes. 6 What are online marketplaces? 7 So online marketplaces are companies like eBay or 8 Farfetch where people are, you know -- one side of the 9 marketplace is selling a product and the other side is 10 buying a product. 11 Has Kevel ever been known under a different name? 12 Yes. We were originally founded as Adzerk, A-D-Z-E-R-K. 13 14 How many employees do you have today at Kevel? 15 We have right around 100. 16 Where are those employees based? 17 So our employees are kind of spread out across the U.S. 18 as well as Europe and a couple in Southeast Asia. 19 In what countries does Kevel offer its products for 20 sale? 21 So pretty much just about every country that we are 22 allowed to offer it for sale.
- 23 | Q Can you give some examples?
- 24 A Yeah. So, you know, the United Kingdom, Netherlands,
- 25 | Portugal, Singapore, Philippines, of course the United

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Direct Examination - J. Avery

1 States, Canada, Mexico. 2 What are your responsibilities as CEO of Kevel? As you 3 said, that is your current role. 4 Yeah. So largely I started out writing a lot of the 5 code for it. But today I'm mostly managing the team that is 6 running the company. 7 So as CEO, it's a lot of meetings and working with 8 the product team and the sales team and the day-to-day 9 operations. 10 And how does that compare to your responsibilities 11 right after you founded Kevel? 12 Yeah. So it's pretty different now that we're, like, 13 100 people. When we were five people, I was doing a lot 14 more of everything, including still writing code and being 15 on every sales call and things like that. 16 So we talked a little bit about Kevel generally, but I 17 want to focus on Kevel's products. 18 Are you familiar with the term "publisher ad 19 server"? 20 Yes. 21 What is a publisher ad server? 22 So a publisher ad server is the technology that a 23 publisher uses to control which ads are going to be shown on 24 a website or a mobile app for the consumers of that app.

What types of companies are the customers for publisher

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Direct Examination - J. Avery

1 ad servers? 2 Everything from traditional publishers to marketplaces 3 to eCommerce to, you know, kind of what we call utility 4 publishers, which is somebody like a -- like a Strava, which 5 people use to track their running and things like that. 6 I'll turn back to that in a couple of minutes. But I 7 want to ask you, does Kevel offer a publisher ad server product today? 8 9 Yes. 10 Can we put up on the screen Plaintiffs' Demonstrative 11 A, please. 12 Mr. Avery, on the screen you'll see a diagram marked as Plaintiffs' Demonstrative A. 13 14 Do you recognize what's depicted here? 15 Yes. Α 16 What does it depict? 17 Yeah. So this really depicts the kind of total 18 programmatic ecosystem. Where do Kevel's ad tech products fall in the diagram? 19 20 Yeah. So we're squarely in the publisher ad server 21 square. 22 As the CEO of a company that offers a publisher ad 23 server, are you familiar with the other companies that offer 24 publisher ad servers? 25

Yes.

1 0 Did Google offer a publisher ad server? 2 Yes. 3 What is Google's publisher ad server called? 4 Google Ad Manager or DFP. Α 5 When did Kevel first begin developing its publisher ad 6 server product? 7 Yeah. So I started writing the code back in 2007, 2008. 8 9 When did Kevel launch its publisher ad server? 10 We officially launched it in 2010. 11 During those years when you were working to build 12 Kevel's publisher ad server, what work did you and other 13 Kevel employees have to do to bring it to market? 14 Yeah. So kind of the fun thing about ad serving is 15 that it's very complicated and very complex from an 16 engineering perspective. So there's a lot of kind of 17 research and development into how to best serve ads to the 18 right person at the right time with the right amount of 19 budget. So there's a lot of kind of technical complexities 20 in building a publisher ad server. 21 When Kevel launched its publisher ad server in 2010, 22 what type of advertising was the focus of Kevel's publisher 23 ad server? 24 Yeah. So at the time we were really focused on what I

call display advertising; so kind of the traditional ad

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Direct Examination - J. Avery

1 banners that you see on websites. 2 And when you were focused on that, what type of 3 customers did you focus on attracting? 4 We were really going after kind of your Yeah. 5 traditional -- traditional publishers. 6 You refer to traditional publishers. What's a 7 traditional publisher? Yeah. So I think of a traditional publisher as 8 9 somebody like a CNN or New York Times, somebody who's 10 publishing articles who's, you know, getting people to come 11 to that site to kind of read the news or read about what's 12 going on that day. 13 In your experience trying to attract those customers, 14 what type of advertising do traditional website publishers 15 sell the most of? 16 Yeah. So for the most part, they're selling kind of 17 traditional banner ads. So those images that you see on the 18 site when you go there, those are being served through an ad 19 server like us. 20 Why did you choose to focus on creating a publisher ad 21 server for display ads for traditional publishers when you 22 founded Kevel? 23 Yeah. So at the time we really looked at -- kind of 24 Google had recently acquired DoubleClick. We looked at the

market and thought there was an opportunity for a kind of

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more modern publisher ad server.

So there was a lot of opportunities in optimizing how the ads were served and kind of including features and functionality that we didn't see in the competitors of the day.

- Q And were those some of the things that you did to try and attract traditional publishers to sign up as your customers?
- A Yeah. We used to focus a lot on just, like, the speed of ad serving, that we could serve a lot faster than any of our competitors.
- Q What other publisher ad servers were on the market at the time that Kevel launched its publisher ad server?
 - A So obviously, GAM, DFP. Also OpenX. There's a company called AdTech. There's also a company called, like, OAS or Real Media 24/7. So there was a number of them at the time.
- 17 | Q And one of those was Google's DFP, correct?
- 18 A Correct, yes.
 - Q In those early days, what was your involvement in trying to sell Kevel's publisher ad server to customer?
 - A Yeah, I mean, pretty early on, as the solo founder, I did a lot of sales. So I was on a lot of the phone calls and working directly with customers. To this day I still get on the odd sales call but not as often as back then.
 - Q So in this time period we're focusing on how many

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mean in a technological sense?

Direct Examination - J. Avery

publishers was Kevel able to convince to switch from Google's DFP to Kevel's publisher ad server? Yeah. I don't know of any that we could get to switch from GAM to Kevel. So how would you describe what it was like in those early days, trying to win publisher ad server customers in competition with Google's DFP? Yeah. I mean, I think we quickly realized it wasn't a market we were going to be able to win in. Why was that? Largely because of the tie to Google's demand through kind of AdX. I mean, what do you mean when you refer to the tie to Google's demand through AdX? So Google has something called AdX, which is their exchange that is tied into DFP or GAM, and it brings a significant amount of money to publishers. So when we would go talk to a publisher, they would tell us, you know, we're making X amount of dollars or X percent of our revenue from AdX. And they would ask us, "How do you replace that revenue?" And basically, we don't have an answer for that. There's not a way for us to replace that revenue because a lot of it's pretty unique demand coming from Google. When you say that AdX is tied into DFP, what does that

1	MS. MORGAN: Objection. Sorry. Foundation.
2	THE COURT: This man has enough of a technology
3	background. Overruled.
4	THE WITNESS: Sorry. Can you repeat the question?
5	BY MR. WOLIN:
6	Q When you say that AdX is tied into Google's DFP, what
7	does that mean in a technological sense?
8	A Yeah. So the only way to really get access to AdX in
9	the best way possible, so in like a real-time way, was if
10	you use their ad sever, GAM.
11	Q And why did that make it difficult, in your view, to
12	compete against Google's DFP?
13	A Yeah, because we just had no way to replace that big
14	chunk of revenue that the customer would be missing if they
15	moved to Kevel from DFP.
16	Q I mean, if we could put Plaintiffs' Demonstrative A
17	back up on the screen, please.
18	Could you identify the link that you're referring
19	to as it's depicted if it's depicted in this
20	demonstrative?
21	A Yeah. So where you see the bid request and bid
22	response going between what's labeled as DFP publisher ad
23	server and AdX, the ad exchange, that's really that direct
24	connection that exists between DFP and AdX.
25	Q And just to be clear, was Kevel able to give its

1 publisher customers access to Google ads via AdX? 2 No. 3 Do publishers want that access? 4 Α Yes. 5 During the first few years of Kevel's existence, what 6 was your involvement with customers that decided to stop 7 using Kevel's publisher ad server? 8 Fairly involved. Especially if a customer was churning, we would want to know why they were leaving us. 9 10 Did Kevel lose customers to DFP? 11 Yes. Α 12 Well, what did you attribute losses to? 13 Yeah. So I think there was two main reasons, really. 14 One was because they needed that demand from AdX. Or the 15 other one was, because we had kind of started to shift our 16 focus away from traditional publishers, our product was, you 17 know, no longer focused on their business. So that would 18 cause them to also potentially move. 19 Was there an example or any examples of customers that 20 Kevel lost because the publishers wanted access to AdX? 21 Yeah. One of the big ones was Reddit at the time. 22 What is Reddit? 23 Reddit is kind of a large community website, public 24 company, where they have, you know, billions and billions of

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ads that they display a month.

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Direct Examination - J. Avery

Reddit is one example. But are there others that left for the same reason? Yes, absolutely. I don't know the names off the top of my head. Before we move on to the next topic, could you explain, looking back at this time period, how did the integration between DFP and AdX affect your business in this early time period? Yeah. It really made us second -- it really made us kind of pivot away from targeting on traditional publishers. We really looked at the market and said there wasn't a way we were going to win a more traditional publisher. I remember when OpenX was going out of business, Yellow Pages came in as a lead. And when we talked to them, they were like, how do we get AdX demand? We kind of said there wasn't a way, and that was the end of the conversation. So there was a lot of those conversations that led us to kind of pivoting our business to a different market. I referred to the early time period in your previous question. What time are we taking about here? Yeah. So this is in the -- starting in, like, the 2012, 2013. And really, even back as far as 2011 when we were really first starting to scale, that we were starting

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Direct Examination - J. Avery

to say okay, we need to pivot away from these traditional publishers and find a market where we can really compete. So what did Kevel do in response to its inability to compete, which you just described? Yeah. So, really, we started to pivot the company. what we did was we focused on APIs. So APIs are really the technology that computers use to talk to each other. So what we did was we built the first kind of API ad server, that would let customers go and build what we called native ads, which are --Could you explain a little bit for the Court what an API is and how it works. Yeah. So an API is just a way that a website or an app can call our servers to get back the right ad to serve instead of it kind of relying on JavaScript and client tags and stuff that I'm sure you'll hear about. When did Kevel make this pivot which you referred to a few moments ago? Yeah. So we started to make that pivot all the way back in 2011. And really by 2012, 2013, we were pretty focused on being an API ad server as opposed to focusing on traditional publishers and banner ads. How did the pivot which you described change the type of advertising that Kevel focused on for its publisher ad server product?

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Direct Examination - J. Avery

Yeah. So we went from focusing on the more traditional banner ads that you see to really native advertising, which includes things like sponsored listings or any other sort of like native unit. Are native ads still Kevel's focus today? Yes. And what is a native ad? Yeah. So a native ad is way to build an ad that's more immersed in the experience of the site or the app that you're using. So the best example is probably Instagram where, if you're on Instagram and you're scrolling through, you see ads that really blended well into the experience of Instagram. Another example is like a sponsored listing where, if you search on Amazon, you'll notice that half the products on Amazon are sponsored. So that means the brand is paying to move their listing higher. Now, those are all examples of native ads. What type of websites do sponsored listing, which you just described, typically appear on? Yeah. So eCommerce and retailer sites. Could you give some examples of retailer sites that you are referring to?

Like Amazon or Walmart or eBay, companies like that.

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Direct Examination - J. Avery

So based on your experience catering to both native ads and display ads in the different time periods, what are the differences between native ads and display ads? We believe that native ads are a lot more Yeah. effective as an advertising medium. But also one of the big differences is that native ads are normally sold direct, so meaning the publisher is working directly with a brand and taking the money directly, whereas display has largely moved to be all bought and sold programmatically. I'm going to ask you about native ads in just a moment, but before I get there, does Kevel observe how its customers use its products for native ads versus how it uses it for display ads? Yeah. So we can see all the API calls that come in from our customers. We can't always tell exactly where they're putting the ad, but we have a pretty good idea of which ones are native versus which ones are traditional display or video or things like that. What has Kevel observed about whether publishers switch between native ads and display ads? Yeah. We tend to find that most publishers are focused on one or the other. You will see, you know, some traditional publishers tend to be very focused on display They will sometimes have a very small part of their ads. business that's native, but it's never really taken off in

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Yeah.

Direct Examination - J. Avery

the traditional publisher space; whereas, if you go to, like, a large community or eCommerce, they're a lot more focused on native and sponsored listings. And what have you observed about the factors that limit switching between native ads and display ads? Yeah. I mean, I think one of the big factors is that they're sold differently. So a lot of these publishers over the years don't do any direct sales or do very little direct sales; so they don't even have the teams that do that anymore. You can find pretty large publishers that just have a couple of people running programmatic demand and don't have any direct sales team. And then also, there's technology differences between the two. Before we go on, let me talk about direct sales. are direct sales? So direct sales is just, like, you have a salesperson that's talking directly to a brand. So, you know, New York Times is calling up Coca-Cola and saying, "We'd like to sell you a premium placement on top of our Summer Olympics coverage" or something like that. You also referred to programmatic sales. What does it mean to sell display ad programmatically?

So that's really the -- when we look over the

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Direct Examination - J. Avery

1 exhibit, that's the programmatic ecosystem, where somebody 2 like Coca-Cola is instead putting campaigns and putting what 3 they want into a DSP. That DSP is then buying those ads 4 through the ad exchange through the publisher. And it 5 basically all happens pretty seamlessly without direct sales 6 and insertion orders and things like that in between. 7 What has Kevel observed about whether publishers shift 8 their sales between programmatic sales and direct sales? 9 It's usually -- for the last ten years it's kind of 10 been a one-way direction of mostly towards programmatic when 11 we're talking about traditional publishers, like they're 12 selling more and more programmatically and less direct 13 pretty much every year. 14 Mr. Avery, I want to ask you about the term now. 15 you familiar with the term "open web display advertising"? 16 Α Yes. 17 What does "open web display advertising" refer to? 18 Yeah. So open web display advertising is really all of 19 these display ad units that I was talking about served 20 across kind of nonwalled gardens, so the rest of the 21 internet. 22 And prior to this case, were you familiar with that 23 term? 24 Α Yes.

And had you used that term prior to the case?

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1 Α Yes. 2 I believe you referred to walled gardens. What is a 3 walled garden? 4 So a walled garden is a term that people use for Yeah. 5 companies like Facebook or Meta, people that kind of aren't 6 participating in the kind of programmatic ecosystem. 7 So following Kevel's change in focus, what have you 8 observed about the mix of programmatic and direct 9 advertising that Kevel's customers use? 10 Yeah. So today largely our customers are all doing 11 direct sales, and it's very little programmatic. 12 And why did Kevel stop focusing on publishers that 13 focus on programmatic sales? 14 Yeah. Because we just -- because we can't connect to 15 AdX. We can't bring that large part of that programmatic 16 demand, which really means that the customers that want more 17 programmatic aren't going to Kevel. 18 Mr. Avery, so we spoke about Kevel's business model and 19 its customers. I now want to ask you about the 20 functionality of Kevel's publisher ad server. 21 So at a high level, how does the functionality of 22 Kevel's publisher ad server compare to the functionality of 23 DFP? 24 I mean, I think we're basically a superset of Yeah.

what DFP offers. So DFP offers kind of traditional banner

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Direct Examination - J. Avery

1 display advertising. What we offer is a lot more for our 2 customers, whether it's the API functionality or it's things focused on what we call retail media, so that more kind of 3 4 sponsored listings like the Amazons of the world. So we 5 offer a lot more functionality than what you'd just find in 6 DFP. 7 You spoke earlier about other countries where your product is offered. 8 9 What, if any, differences are there between the 10 publisher ad server that Kevel offers in the United States 11 and the publisher ad server that Kevel offers in other 12 countries? There's no real difference. 13 Yeah. 14 Does Kevel's publisher ad server allow a publisher to 15 offer impressions for sale on ad exchanges? 16 Α Yes. 17 Which ad exchanges can publishers access through 18 Kevel's publisher ad server? 19 Yeah, I don't remember the full list, but off the top 20 of my head, Index Exchange, PubMatic, Magnite, Place 21 Exchange. 22 Does Kevel's publisher ad server allow a publisher to 23 offer its impressions for sale on Google's AdX ad exchange? 24 Α No.

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Why not?

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Direct Examination - J. Avery

We have never been able to make that direct connection, and we've asked a couple of times. Does Kevel's publisher ad server give any preference to one exchange over other exchanges? No. So we allow our customers to configure their exchanges and how they want to send traffic to them. So for us, it's really about our customer and what they want. So if they want to preference one over the other, they can. But we don't have any bias in who gets preference or who goes first. Does Kevel's publisher ad server require that a particular exchange have the opportunity to bid on inventory before other exchanges? No. Why not? Because again, like, we're focused on what do our customers really want? If our customer wants to give one exchange preferential treatment, they can do that. But we don't have an exchange; so we don't have, like, a horse in that race. So we're not going to give anybody preferential treatment over somebody else. Does Kevel's publisher ad server add functionality that compares bids for multiple exchanges at the same time? Α Yes.

Can publishers who use Kevel choose to give all

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Direct Examination - J. Avery

1 exchanges equal opportunity to bid on impressions? 2 Yes. 3 And when did Kevel introduce that functionality? 4 I don't remember exactly, but it was about five years 5 ago. 6 So why does Kevel give publishers the choice to give 7 exchanges equal access to their publishers' inventory? 8 Α Yeah. It goes back to we're working for our customers, 9 not anybody else. So what they want to do is what we're 10 happy to provide for them, so whether it's equal or they 11 want to preference one. But it's really -- we are not an 12 exchange; so we're not, you know, influencing that. 13 Are you familiar with the term "price floor"? 14 Yes. 15 What is a price floor? 16 So a price floor is, when a bid is sent to an exchange, 17 the publisher can say the minimum clearing price of how much 18 they want to get for that impression or that ad. 19 Does Kevel's publisher ad server place any restrictions 20 on the price floors that its publishers can set? 21 Α No. 22 Why not? It goes back to what I've said before, which is that 23 24 we're about what our customers want to do. And so if they 25 want to set up a super low floor or a high floor, it's based

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Direct Examination - J. Avery

1 on their business and kind of how they want to optimize 2 things. 3 Can a publisher that uses Kevel give different price 4 floors to different exchanges? Α Absolutely. When did Kevel introduce that functionality? 7 We built that in the beginning; so roughly five years 8 ago when we first built our kind of exchange integration tech. We've had that from the beginning. 10 Are you familiar with the term "header bidding"? 11 Yes. 12 Without getting into the technical details, what is header bidding? 13 14 Yeah. So header bidding was kind of a solution built 15 where the kind of ecosystem got together and figured out a 16 way for other exchanges to bid into DFP. And so some people 17 call it, like, a hack. But it's a hack in the sense of it's 18 a clever solution that they figured out how to get bids from 19 other exchanges into the auction in DFP. 20 How, if at all, does Kevel's publisher ad server 21 support header bidding? 22 So unlike with DFP, they kind of had to find these 23 workarounds. We actually just went and implemented a direct 24 system so that you can actually send in the actual full

price in the header bidding request, as opposed to DFP,

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Direct Examination - J. Avery

there's some workarounds that have to happen. So I think our implementation is actually better than DFP's. When did Kevel build this integration with header bidding? It was a couple of years ago. I don't remember the exact date. So do Kevel's publisher customers ever give you feedback about the features of Kevel's publisher ad server? Α Yeah. All the time. What kind of feedback do you receive? There's things they like. There's things they want us to improve. There's features we don't have that they would like us to add. What is Kevel's approach or philosophy about responding to this customer feedback? Yeah, so, I mean, we take into account a lot of things, like how big is the customer? Are they in the market that we're targeting? A lot of times, they'll talk to me or they'll talk to my VP of product or one of our product managers, and then we can kind of prioritize that work along with all the other work that we're trying to get done. So to be clear, what does Kevel do when its publisher customers request that Kevel add specific features? Yeah, I mean, so largely we listen, and then we think about where can we prioritize this? And I'd say the vast

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Direct Examination - J. Avery

majority of the things that we build are driven by customer requests. And looking at it from the other direction, what does Kevel do when it hears feedback from its customers that they don't like the features of Kevel's publisher ad server? Yeah, I mean, I think the same in reverse. Like, we think about other ways we can improve it. Are there things we can remove? You know, but I think, again, a lot of the majority of our product development, probably 80 percent plus, is all driven by customer feedback and input. So over -- thinking about the past five to ten years, how would you compare the amount of innovation that you've observed from Kevel to the amount of innovation you've observed in the industry from Google? I think that we've built a lot more functionality and kind of, I think, pushed ad serving a lot further forward than what we've seen from Google and DFP. Why do you say that? I think when you look at the things that we've built in the retail media side, things around API delivery, things even like that header bidding example, where we took the time to implement this in the correct way, you know, I think are differentiators. So before we move on, let me ask you about the pricing

for Kevel's publisher ad server. How does the pricing work?

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frame?

Direct Examination - J. Avery

Yeah, so we have a platform fee. So kind of like you pay to get access to the software. And then there's a usage fee based on kind of how many requests that you're making to our API. And without getting into too many specifics, is that fee negotiable? Yes. Again, without getting into any confidential specifics, have there been instances where Kevel negotiated a decrease to its fee in order to convince a customer to use Kevel's publisher ad server product? Yeah, absolutely. So, Mr. Avery, you mentioned several minutes ago that publishers could not use Kevel's publisher ad server to sell impressions through AdX. Did Kevel ever ask Google to integrate AdX with Kevel's publisher ad server? Yes. When did Kevel make that request to Google? Yeah, so the first one was all the way back in -- I want to say it was 2012/2013 time frame, where I asked specifically if there was a way we could integrate with AdX -- integrate AdX into Kevel so that we could get that same access to Google demand that you get from DFP. Why did Kevel want to integrate with AdX in that time

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Direct Examination - J. Avery

Well, I think it goes back to what we hear from our customers, that our customers that we're trying to sell to in this traditional publisher market, they were really looking for access -- you know, demand from AdX. And if we offered that, we thought we could better compete for their business. In response to your requests, did Google integrate AdX with Kevel's publisher ad server? Α No. Did Google ever tell you why? Back then, I think it was something like it doesn't work that way; but there wasn't any further details. I think you mentioned that you had made the request to integrate more recently as well; is that right? So a year or two ago, I also had another call Yes. where we tried to bring up -- I got an introduction to somebody at Google to try to say how can we connect AdX to bring that demand into Kevel? What was the outcome of those communications? Basically, we never got anywhere. I think the person I was talking to first was -- thought that we were trying to buy from AdX, which is maybe why they took the call. But then when it became clear what we were looking for, it kind of became a dead end. And I never got a straight answer.

You also mentioned several moments ago that Kevel's

1 publisher ad server integrates with Index Exchange, 2 PubMatic, and other ad exchanges; is that correct? 3 Yes. 4 So how difficult was it technologically for Kevel to 5 integrate with Index Exchange and PubMatic? 6 Usually it takes about two to four weeks. So it's, 7 like, one or two engineers for two to four weeks to 8 integrate a new exchange partner. 9 And do you know how difficult it would be for Kevel to 10 integrate with AdX? 11 I think if we had the same connection point that we 12 have -- or a similar connection point that we have to, like, 13 Magnite or PubMatic, then it would be two to four weeks with 14 one or two engineers. 15 As CEO of Kevel, do you think it would be beneficial 16 for Kevel if AdX began integrating with Kevel's publisher ad 17 server? 18 100 percent. 19 Why do you think that? 20 I think it would allow us to compete in this 21 traditional kind of display market that we really can't 22 compete in today. 23 And if Kevel began integrating with AdX, what do you 24 think that would mean for Kevel's customers?

Yeah, so I think for the customers that want that

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Direct Examination - J. Avery

demand, they would be able to access it. And then I think we'd also be able to access a lot of new customers that today don't really have a choice in which ad server they pick. And if AdX began integrating with Kevel's publisher ad server, what would Kevel do next? I mean, I think the biggest thing we would do is we would go back to that traditional display market, and we would figure out how do we start to market more in that market? How do we improve our product for that set of customers? And, really, we'd have a whole new market open for our business that we could go attack. Mr. Avery, I'd like for you to look in your binder at PTX 758. MR. WOLIN: Your Honor, we would offer PTX 758. MS. MORGAN: Your Honor, we object on relevance grounds. These are allegations from a journalist; they have nothing to do with the facts in this case. THE COURT: Well, it's an email, correct? MS. MORGAN: It's an email to a journalist. MR. WOLIN: It's an email from Mr. Avery to a journalist discussing some of the issues that he's been discussing here today. THE COURT: I'm going to overrule the objection.

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Direct Examination - J. Avery

1	(Defense Exhibit Number 758 admitted into evidence.)
2	MR. WOLIN: Thank you, Your Honor.
3	Can we please put 758 up on the screen. Thank
4	you.
5	BY MR. WOLIN:
6	Q Mr. Avery, what is the document that we're looking at,
7	PTX 758?
8	A Yeah, so this an email communication between myself and
9	Sarah Sluis.
10	Q And who is Ms. Sluis?
11	A She is a reporter at AdExchanger.
12	Q Could we please turn to the second page of the document
13	to the email at the bottom of the page.
14	Mr. Avery, do you see the email at the bottom of
15	the second page from Ms. Sluis at 7:52 p.m. on April 24,
16	2019?
17	A Yes.
18	Q What's Ms. Sluis asking you about in this email?
19	A Yeah, so she's asking me about there was an exchange
20	I had on Twitter with someone talking about whether
21	AdWords and, really, Google ads could integrate with
22	other ad servers. And I was saying that they couldn't. And
23	I think she was asking about that exchange on Twitter.
24	Q Let's please scroll up in the document to the email at
25	the middle of the second page.

1 Mr. Avery, do you see --2 I'd like to see the email from Mr. Avery at 3 10:17 p.m. 4 Α Yes. 5 Do you see that? 6 Α Yes. 7 Could you read aloud the second paragraph of the email, and then I'd like to ask you a few questions about the 8 context for the response that you gave there. 9 10 Yeah. I said, so -- "But AdX is completely tied to DFP 11 (Ad Manager). We have worked with some customers who have 12 AdX tags, meaning they can put them in our ad server or 13 another; but no one really wants to use tags anymore since 14 you end up with passbacks and other inefficiencies." 15 MR. WOLIN: Mr. Klein, could we put the second 16 paragraph up, please. 17 BY MR. WOLIN: 18 You said in that paragraph that you just read that AdX 19 is almost completely tied to DFP. What did you mean by 20 saying that? 21 Yeah, and what I referenced here is, like, with the 22 tags as well is that there's technically a way to integrate 23 with AdX but it's very inefficient. And so the only way to 24 get real-time demand and, really, bids from AdX is tied to 25 DFP. There's no way for us to integrate with AdX and get

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Direct Examination - J. Avery

that same level of real-time bids from Google. 1 2 Is that why you believed that AdX is tied to DFP? 3 Α Yes. 4 In that same email, what do you tell Ms. Sluis in the 5 next-to-last paragraph that starts with "almost"? 6 So "Almost every ad server has gone out of 7 business because of this integration between AdX and Ad 8 Manager. Publishers may want use another ad server, but 9 they would end up giving up a chunk of revenue from AdX. Ιt 10 turns out monopolies are pretty effective." 11 In that paragraph you referred to Ad Manager. Does 12 that refer to Google's DFP? 13 Α Yes. 14 You also refer to ad servers that have gone out of 15 business because of the integration between AdX and DFP. 16 What ad servers have gone out of business? 17 Yeah, so a lot of companies have shut down their ad 18 servers. So OpenX shut down their publisher ad server. 19 AppNexus largely shut down their publisher ad server. Then 20 companies like OAS and AdTech that aren't around anymore. 21 I'm going to ask you about one last section of the 22 So let's turn to the first page, please, into the 23 middle of the page to the email at 11:56 a.m. 24 Do you see the email to Ms. Sluis from you at

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11:56?

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Direct Examination - J. Avery

1 Α Yes. 2 What did you tell her in the final sentence of your 3 email? 4 I said, "Yeah, you could possibly hack something together to get AdX to work in the header, but it would be 5 6 unsupported, and they could break it or tell you to stop. 7 Most publishers are deathly afraid of getting banned from Google or AdX; so they aren't going to take the risk." 8 9 What's the basis for your statement in that last 10 sentence, "Most publishers are deathly afraid of getting 11 banned from Google or AdX; so they aren't going to take the risk"? 12 13 Yeah, it's just from the customers that we talk to and 14 what we hear from them. 15 And why did you write at that time that most publishers 16 are deathly afraid of getting banned from Google or AdX? 17 We have heard that from customers over the years that, 18 whenever we would kind of offer a clever solution like this, 19 they would immediately say we're not going to do something 20 that would risk us getting banned from AdX. 21 MS. MORGAN: Objection. Hearsay. 22 THE COURT: Yep. I was waiting for it. 23 Sustained. 24 MR. WOLIN: I'll move on, Your Honor. Thank you.

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Direct Examination - J. Avery

- 1 BY MR. WOLIN: 2 One last set of questions, Mr. Avery. I want to focus 3 on competition that you're facing today. How many customers 4 does Kevel have for its publisher ad server today? About 150. 5 Α 6 And what is Kevel's pitch to publishers today? 7 Yeah, so we've largely pivoted towards what we call 8 retail media, which is really the sponsored listings and 9 working with retailers in marketplaces. And we believe that 10 we've really built the best retail media ad server out 11 there. And so that's been the focus today. 12 Do publishers today use Kevel's publisher ad server for 13 programmatic display ads? 14 A very small number of publishers do. 15 And how would you describe the types of publishers that 16 use Kevel's publisher ad server for programmatic display ads 17 today? 18 So it's either small publishers or sometimes what we 19 call utility publishers, which is people who -- kind of like 20 a Strava or an app that they -- they're not really a 21 traditional publisher but they still kind of fall in that 22 publisher realm. 23 Does Kevel keep track of which customers it wins and
- 25 | A Yes.

loses?

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Direct Examination - J. Avery

1 0 And how does Kevel do that? What type of analysis? 2 We use a tool called HubSpot. 3 Does Kevel evaluate its competitors in the market? 4 Α Yes. 5 How does Kevel do that type of analysis? 6 It's a lot of kind of going through their documentation 7 and hearing what we hear from customers. And then we 8 have -- you know, we have product managers that are looking 9 into competitors and things like that. 10 In trying to attract traditional publisher customers 11 today, do you have any understanding of which publisher ad 12 server Kevel loses to most frequently? 13 Yeah, I think if we're going after traditional 14 publishers, we -- it's pretty much a foregone conclusion 15 they're going to go with DFP. 16 And what has Kevel observed about the types of 17 publishers that DFP is strongest in attracting? 18 Yeah, I think it's all the traditional publishers. 19 Based on what you and Kevel has observed, why has Kevel 20 been unsuccessful at convincing those types of publishers to 21 switch from DFP to Kevel's publisher ad server? 22 Yeah, it just goes back to the demand from AdX and the 23 fact that we can't give our customers that same direct 24 connection to AdX that customers of DFP have.

Are there any examples of publishers that Kevel failed

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Direct Examination - J. Avery

to convince to switch from DFP to Kevel's publisher ad server? Yeah, we actually had a customer recently where -- they were acquired and eventually churned. And then they reached back out. And they said we're interested in moving off of DFP back to Kevel, but we need to have that demand from AdX. And I kind of had a call with them. And they said, hey, is there a way to do this? And I said, you know, I've reached out -- this is back when I reached out to them again. I said I've reached out and I'll let you know if I can get a connection to AdX. But since we haven't been able to, that deal hasn't gone anywhere. But they basically said we are ready. We want to come to Kevel, but if you could solve the AdX problem. Over the past five to ten years, how many publishers have left Kevel to switch to DFP? At least dozens. I don't know exact number. And when Kevel analyzes why those publishers leave Kevel to switch to DFP, what are Kevel's conclusions? Yeah, so I think there's really two reasons. One is that lack of connection to AdX and that demand from Google. And then the second one would be because we've pivoted and we've focused more on retail and native use Then we're also not building all the tools and

things that a traditional publisher a traditional	
publisher might want. And so then that customer might leave	
just because we've kind of shifted markets.	
Q And from your perspective running Kevel's business in	
the ad tech industry for several years, how would you	
describe Google's position in the market for publisher ad	
servers for open web display advertising?	
A Yeah, they're the dominant player.	
Q Why did you describe DFP as being dominant?	
A I think that it's probably 90 percent plus of	
traditional publishers use DFP.	
Q Based on your observations and experiences trying to	
compete in the publisher ad server market, to what do you	
attribute the fact that DFP is the dominant publisher ad	
server?	
A Yeah, I mean, I think it's the connection the tight	
connection to AdX that other ad servers can't offer.	
MR. WOLIN: Thank you, Your Honor. We have no	
further questions at this time.	
THE COURT: All right.	
Cross?	
CROSS-EXAMINATION	
BY MS. MORGAN:	
Q Good afternoon, Mr. Avery.	
A Hello.	

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Cross-Examination - J. Avery

- Q It's nice to see you again.
- 2 A Yeah, you too.
- Q I'm Erin Morgan. We met at your deposition. I'm just going to ask you a few questions this afternoon.
- First, I just want to make sure I'm clear on what
- 6 Kevel does. Kevel considers itself a publisher ad server,
- 7 | right?

- 8 A Yes.
- 9 Q And the publisher ad server technology Kevel uses is
- 10 | API-based, right?
- 11 **A** Yes.
- 12 | Q So Kevel's publisher ad serving technology is API-based
- 13 | so customers can use the APIs to create an in-house custom
- 14 ∥ ad server, right?
- 15 **|** A Yes.
- 16 Q Kevel has made it possible for lots of companies to
- 17 | build their own internal ad platforms, right?
- 18 | A Yes.
- 19 | Q Okay. You've described Kevel as offering a walled
- 20 garden in a box. Do you recall that?
- 21 A Yes.
- 22 | Q Okay. And when you say it's a walled garden in a box,
- 23 | what you mean is that Kevel provides tools that allow
- 24 | companies to set up their own walled gardens, right?
- 25 | A Yes.

Cross-Examination - J. Avery

1 And Kevel's tools enable the launch of many walled 2 gardens, right? 3 Yes. 4 You believe that most publishers want to build custom 5 in-house ad products like Facebook and Amazon have done, 6 right? 7 I think the majority of publishers that we're going 8 after do. I don't know that traditional publishers really 9 want to do that. 10 Kevel has represented to customers and potential 11 customers on its website that traditional publishers are 12 launching walled gardens, though; isn't that right? 13 I think a small number are, but I'd say the vast 14 majority are not. 15 Is that qualification on Kevel's website? 16 I'm not sure. 17 Let's go to Tab 6. I'll show it to you. 18 Do you recognize this as a blog post from the Kevel website titled "Why Traditional Web Publishers are 19 20 Shifting Their Ad Strategy"? 21 Yes. 22 And on the first page there's a URL that says 23 kevel.com/blog/traditional-ad-publishers, right? 24 Α Yes.

Q So you can see that this is on Kevel's website?

- 1 | A Yes.
- 2 | Q And Sarah Wheeler is one of your employees?
- $3 \parallel A \qquad \text{Yes.}$
- 4 | Q I'm going to direct you to the third sentence in the
- 5 | first paragraph.
- 6 | A Okay.
- 7 | Q The paragraph starts with the words "Traditional"
- 8 publishers." Do you see that?
- 9 | A Yes.
- 10 Q Okay. And the third sentence says, "As nontraditional
- 11 publishers and marketplaces launch walled gardens and see
- 12 | billions in returns, traditional publishers are following
- 13 | suit."
- 14 Do you agree with that sentence?
- 15 | A No. I think this is a little bit of marketing wishful
- 16 | thinking. So a lot of times we'll publish blog articles to
- 17 | try to attract different types of customers. And I think
- 18 | here we're hoping that more traditional publishers will do
- 19 | this. But I can say that we haven't signed any that are
- 20 | really going and doing what we hoped they would do in this
- 21 | article.
- 22 | Q Are you planning to take this off your website if you
- 23 don't think it's accurate?
- 24 A No. I think it's an important part of marketing, is to
- 25 put out ideas of what we think people could do. So like a

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Cross-Examination - J. Avery

lot of the companies we list in here, you'll notice most of them or I think none of them are Kevel customers because they're really saying -- we're saying, like, we would love that all recipes to go and do this, but they're not doing it yet. Let me direct your attention also to page 4 in this second paragraph. It starts with the words "due to these limitations." Do you see that? Yes. "Due to these limitations, traditional publishers are increasingly launching homegrown ad platforms to drag new revenue and future-proof their ad offerings." Is it your testimony that that's just marketing and that's not true? I think it's largely marketing, yes. Well, it took Facebook years to build its in-house ad product. Companies can use Kevel's tools to build something similar in much less time, right? Α Yes. In fact, using Kevel's tools, a branch can launch its own ad server in anywhere from a couple of weeks to a couple of months, right? Yes. Α

You testified earlier a little bit about the fees that

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Yes.

Cross-Examination - J. Avery

Kevel's customers pay, and you described two different type of fees. We talked about this a little bit at your deposition. Is it correct that Kevel's customers pay on average about \$100,000 to \$120,000 a year to use Kevel's tools to build their own ad platforms? Yeah. I think the average is probably a little bit higher now, but that's roughly, I'd say, the range of average across all our customers. When you say "now," you mean that the range has gone up since you were deposed in 2023? Α Yes. Kevel's lowest cost option is around \$25,000 a year, right? At the time I think our lowest is more around 80,000 now. So it's gone up -- it's tripled in the last year? Yes. Over 200 brands have used Kevel, or formerly Adzerk, to launch an ad server; is that right? Yes. Some of those brands include Ticketmaster, right? Yes. Bed Bath & Beyond?

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Cross-Examination - J. Avery

Klarna? 1 0 2 Yes. 3 And Yelp? 4 Α Yes. 5 Publishers who build an ad server using Kevel's tools 6 can use that ad server to serve many different types of ad 7 formats, right? 8 Α Yes. And Kevel represents that to customers and potential 9 10 customers, right? 11 Α Yes. 12 That includes sponsored listings, correct? 13 Α Yes. 14 Native listings? 15 Α Yes. 16 Banner ads? 17 Yes. 18 Video ads? 19 Yes. 20 Mobile ads? 21 Yes. 22 And digital out-of-home ads, right? 23 Yes. 24 Some of Kevel's customers have actually built in-house 25 ad platforms that can serve banner ads, right?

Cross-Examination - J. Avery

- 1 Α Yes. 2 And you testified on direct quite a bit about native 3 advertising. So I want to ask you some questions about 4 that. 5 Native advertising means integrating ads 6 seamlessly into your feed home page search results, et 7 cetera, right? 8 Α Yes. 9 And native ads can take a variety of different forms: 10 They can be video ads, they can be sponsored listings, they 11 can be in-feed ads, or native skin ads, right? 12 Α Yes. 13 Kevel represents to its customers and potential 14 customers that more and more advertisers are looking to 15 innovative native display ads rather than standard banners, 16 right? 17 Yes. 18 That means that more and more native ads are replacing 19 banner ads, right? 20 For certain types of publishers, yes. 21 Right. Well, the words "rather than" in that sentence
 - mean instead of, right? So what this is saying, what you are saying to Kevel's customers is that more and more advertisers are looking to innovative native display ads instead of standard banners, right?

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Cross-Examination - J. Avery

1 Yes. From an advertising perspective, yes. 2 You understand that statement to be true? 3 Yes. 4 Kevel also represents to its customers that advertisers 5 are increasing their native ads -- sorry -- their native ad 6 budgets, and they're hoping to capitalize on higher 7 engagement rates of these ad units, right? 8 Α Yes. 9 And Kevel is growing its business by publishers 10 launching or switching to native advertising, right? 11 Yes. Α 12 How many publisher customers do you have who have not 13 previously done digital advertising that launched native 14 advertising with Kevel? 15 I don't know the exact number, but there's a number of 16 customers that have never done any sort of other digital 17 that start with native. 18 How many would you say? I don't want to guess, but there's maybe a dozen or 19 20 more. 21 A dozen or more out of the 200? 22 Yes. 23 You also testified on direct about retail media. 24 Do you remember that? 25 Yes.

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- 1 Retail media is another area of growth in digital 2 advertising, right? 3 Yes. 4 Some of the largest retail media companies include 5 Amazon, Walmart, Instacart, eBay, Etsy; is that right? 6 Yes. 7 Retail media includes ads that run on a retailer's own 8 website or app, right? 9 Α Yes. 10 That that's called on-site retail media. 11 Yep. Yes. 12 And retail media also offers offsite retail media, 13 right? 14 Yes. 15 Offsite retail media is advertising that's placed in 16 third-party channels, like social media networks or other 17 websites or connected TV platforms, right?
- 18 | A Yes.
- 19 Q The growth of retail media is a recent trend in the 20 ad tech industry, right?
- 21 | A Yes.
- 22 | Q Kevel has recently deepened its focus on retail media?
- 23 A Yes.
- 24 Q In March 2024, Kevel launched its retail media cloud,
- 25 which provides tools to build differentiated world-class

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Cross-Examination - J. Avery

- 1 retail media networks, right? 2 Yes. 3 And your view is that the next phase of retail media is 4 about bringing it into the programmatic ecosystem, making it 5 less about walled gardens and more about open access, right? 6 I believe that's part of the next wave, yes. 7 When you say it's part of the next wave, do you recall 8 that you've made that exact statement before? 9 Α Yes. 10 Okay. And do you think that you clarified that it was 11 part of the next wave when you made that statement 12 previously? 13 I think it's -- I think it's part of what we're seeing 14 in the industry. Like, I think we also see in-housing as 15 another big part, which I think is one of the first things 16 you quoted, which was that we see retailers taking their 17 technology in-house, but we also think that they're going to 18 open the doors up to have programmatic demand come into 19 retail platforms. 20 One of the things you testified about on direct is that 21 part of your job is assessing Kevel's competition, right? 22 Yes. 23 You spent time in your job comparing Kevel to Google, 24 right?
 - A Yes.

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Cross-Examination - J. Avery

1 In fact, you testified about that on your direct, 2 correct? 3 Yes. 4 Kevel tells customers on its website why brands 5 normally use Google's ad server, right? 6 Yes. 7 Kevel represents to customers that one of the reasons brands use Google's ad server is because it's free to anyone 8 with under 90 million monthly impressions and no other 9 10 vendor offers such a deal, right? 11 Yes. So the kind of entities that have under 90 million 12 13 monthly impressions are mostly small to medium publishers, 14 right? 15 Correct. 16 So you understand that Google's publisher ad server is 17 free to small to medium publishers, right? 18 Yes. 19 And you believe that one of the reasons Google's ad 20 server is widely adopted is because it's a deal for small and medium publishers? 21 22 Yes. 23 Kevel also represents to customers that another reason 24 brands use Google's ad server is because it provides instant 25 access to their AdX exchange, potentially increasing the

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Cross-Examination - J. Avery

1 CPMs publishers make from programmatic ads, right? 2 Yes. 3 I think this is in the glossary that's been presented 4 to the Court, but can you just clarify what CPMs mean? 5 Α Yeah. So it's like cost per mil, so the cost per a 6 thousand ad impressions. 7 So what you're saying here is that publishers make more 8 money from using GAM? 9 Α Yes. 10 And you believe that's important to publishers, right? 11 Yes. 12 Kevel also represents to customers and potential 13 customers that a third reason Google's ad server is widely 14 adopted is because it's reliable both from an infrastructure 15 perspective and a business one? 16 Yes. 17 And you agree that Google's ad server is widely adopted 18 because it is reliable from both an infrastructure and 19 business perspective, right? 20 One of the reasons, yes. 21 You testified on direct that Google would not permit 22 integration of real-time AdX bids into Kevel. 23 Do you remember that? 24 Α Yes.

Real-time bids from AdX have never been available to

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Cross-Examination - J. Avery

- 1 Kevel, correct? 2 Correct. 3 And to the best of your knowledge, Google does not 4 integrate its ad exchange with other non-Google third-party 5 publisher ad servers the same way Google integrates AdX with 6 DFP, right? 7 Correct. No other ad servers have had that access to AdX. 8 9 What you want is for Google to integrate AdX with Kevel's publisher ad server in the same way that Google 10 11 integrates AdX with Google's publisher ad server; isn't that 12 right? 13 Yes. 14 Specifically, your request was that Kevel have the same 15 access to real-time bids from AdX that DFP has, correct? 16 Α Yes. 17 You haven't done any engineering work on Google's 18 tools, have you? 19 No. 20 And you don't know how technically challenging it would 21 be for Google to integrate AdX with Kevel's publisher ad 22 server in the same way that Google integrates Google's ad 23 exchange with Google's publisher ad server?
- 24 A No, I don't know their internal tech.

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Q You've also never worked at a publisher yourself,

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- 1 right? 2 I ran a couple of small ad networks, but I didn't work 3 directly at a publisher. 4 And you've never worked at an ad exchange, right? 5 Correct. 6 So to the extent you gave testimony today about what 7 would be good or bad for publishers, that's based on 8 conversations you had with publishers, right? 9 Yeah. Like the 13 years of conversations with our 10 customers. 11 You also testified that AdX is the largest ad exchange 12 in terms of size, right? 13 Α Yes. 14 Your only basis for saying that is -- that AdX is the 15 largest ad exchange for programmatic display advertising is 16 publishers you talked to, right? 17 Yes.
- Q I'd like to put up PTX 758, which is the document that
 the DOJ counsel showed you. And I want to go to the second
 page of this document. Do you remember that you just
 testified about the second email in this page that starts
 with the sentence "always happy to help"?
- 23 | A Yes.
- 24 | Q Do you see that?
- 25 The government asked you to read starting from the

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- 1 third paragraph down. I'm going to ask you to read the 2 second paragraph. Can you read that out loud. "But AdX is almost completely tied"? 3 Yeah. That one? 4 Oh, no. The paragraph above that, "I don't know." 5 "I don't know if AdWords bids on other exchanges, but 6 their DSP definitely bids across lots of different 7 exchanges." AdWords is now called Google Ads, right? 8 9 Α Yes. 10 So you don't know if Google Ads bids on other 11 exchanges, right? 12 Α Correct. 13 And it says here, "their DSP" -- and you're referring 14 to Google's DSP, right? 15 Α Yes. 16 And by "their DSP," you're referring to DV360, right? 17 Yes. 18 So you understand that DV360 definitely bids across 19 lots of different exchanges, correct?
- 20 | A Yes.
- Q And you understood that in 2019 when you wrote this email?
- 23 | A Yes.
- Q You've testified about the demand that's available in the AdX. DV360 is part of that demand, right?

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- 1 A Yes.
- 2 Q And so is Google Ads, right?
- $3 \parallel A \qquad \text{Yes.}$
- 4 | Q So you don't know if Google Ads bids into anything
- 5 | else; and you know DV360 does, correct?
- 6 A Correct.
- 7 | Q Kevel also advertises, right?
- 8 A Yes.
- 9 | Q In fact, Kevel uses Google's advertising tools, right?
- 10 | A We do.
- 11 Q And as an advertiser, Kevel has gotten a good return on
- 12 | investment using Google's advertising tools, right?
- 13 | A Yes.
- 14 | Q If you didn't get a good return on the investment, you
- 15 | would shift your ad spend to a different supplier, right?
- 16 A Correct.
- 17 Q You stated in 2020 that you were aware that the
- 18 | Department of Justice was investigating Google and if they
- 19 | are forced to open up AdX, it could be good for Kevel,
- 20 | right?
- 21 A Absolutely. Yes.
- 22 Q And by "they opening up AdX," you were referring to
- 23 | Google, right?
- 24 A Yes.
- 25 Q What you meant by that is that Kevel would financially

Cross-Examination - J. Avery

1 benefit if Google was forced to open up AdX, right? 2 If we could compete in the traditional publisher 3 market, it would be good for Kevel. 4 Around that same time in 2020, do you remember also 5 telling people that you had a good, long couple of calls 6 with the Department of Justice? 7 Yes. Α 8 Okay. Was that true? 9 Α Yes. 10 You also met with the Department of Justice at least 11 once after they filed their complaint, right? 12 Α Yes. 13 When you met with the Department of Justice, did you 14 tell the Department of Justice's lawyers that Kevel tools 15 allow publishers to set up an in-house ad server in as 16 little as two weeks? 17 I don't remember exactly the conversation. 18 Did you tell the Department of Justice's lawyers that 19 you thought the future of growth in the industry was in retail media? 20 21 I don't remember. 22 Did you tell the Department of Justice that Kevel stood 23 to financially benefit from a breakup of Google's ad tech 24 business?

I think I told them that it would be a benefit to us if

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Redirect Examination - J. Avery

we could compete in the traditional publisher market where		
we can't compete today. And it was a matter of if we could		
get access to that AdX direct demand just like GAM has.		
Q So you did tell them that Kevel could financially		
benefit from a breakup of		
A I don't think I used those exact words. But I said it		
would be I think it would be good for us and the		
industry.		
MS. MORGAN: I have no further questions.		
THE COURT: All right.		
Redirect?		
MR. WOLIN: Very briefly, Your Honor.		
REDIRECT EXAMINATION		
BY MR. WOLIN:		
Q Mr. Avery, let's start with that last point.		
Counsel from Google asked you about benefiting		
financially if AdX was forced to integrate with Kevel.		
Do you recall that?		
A Yes.		
Q Would Kevel's customers benefit if that occurred?		
A Yeah, I think our customers would benefit. They would		
get access to demand they don't have access to today. And		
then I think all our potential future customers would		
benefit because they would have choice in what ad server		
they pick.		

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Redirect Examination - J. Avery

1	Q You were also asked about Kevel's use of Google tools
2	to place advertising. Do you recall that?
3	A Yes.
4	Q Why does Kevel use Google's tools to purchase display
5	advertising?
6	A I mean, Google is, like, the default search engine that
7	everyone uses. So pretty much every brand has to go to
8	Google if they want to show up on Google's page.
9	Q When Kevel places advertisements, would Kevel prefer
10	more choices to purchase display advertising?
11	A Yeah, I mean, if I could avoid giving one of my
12	competitors money, I would. But I think we all know that
13	the Google search engine is something you pretty much have
14	to buy ads on if you're a brand.
15	MR. WOLIN: Thank you, Your Honor. Nothing else.
16	THE COURT: Any recross?
17	MS. MORGAN: None from me, Your Honor.
18	THE COURT: All right.
19	Does anybody anticipate calling Mr. Avery again?
20	MR. WOLIN: No, Your Honor.
21	THE COURT: How about from the defense?
22	MS. MORGAN: No, Your Honor.
23	THE COURT: All right, then, sir, you are excused
24	as a witness. We're going to be closing down the trial for
25	today pretty soon because I have housekeeping matters. So

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Redirect Examination - J. Avery

1 you can come back tomorrow if you want to watch the 2 proceedings, but you're not to discuss your testimony with 3 any witness who has not yet testified. Thank you. 4 THE WITNESS: Okay. Thank you. 5 THE COURT: You're free to go. 6 Where are we in terms of the government's case? 7 About where you thought we'd be? 8 MS. WOOD: Your Honor, you continue to move us 9 along. So we are actually ahead of schedule even on 10 day one. We -- at least on our estimate, we're at least one 11 or one and a half witnesses ahead of where we had 12 anticipated. 13 THE COURT: All right. Now, so that we don't have 14 any problems, I'm going to have us read the very few 15 exhibits that were actually formally admitted today. 16 However, there's been so much discussion about 17 these demonstratives. And because of the public and media 18 interest in the case, are you comfortable in having the 19 demonstratives that have been discussed in the trial today 20 also appearing on what we're calling the -- is it a joint 21 website? I don't know what you-all have set up for access. 22 MS. WOOD: I believe they're separate websites, 23 but we are comfortable having the plaintiffs' demonstratives 24 appear.

I know there were some of defendant's

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demonstratives that were really in a slightly different format. There were more documents that they just weren't offering, Bates-stamped documents, for example, that they weren't offering. THE COURT: Well, I'm talking about the nice visuals. MS. WOOD: Exactly. So visual documents, I completely agree should be up on the websites. And we have no problem with that, Your Honor. THE COURT: All right. How about Google? Are you comfortable with any of the nontextual -- in other words, the graphs? MR. ISAACSON: Any of them regardless of what counsel thinks is visual, yes. THE COURT: All right. That's fine. I'm assuming you can agree on that. Then for the record, let's read in what we believe -- I think there were only three exhibits that were actually admitted. For the record, who is keeping track? THE COURTROOM DEPUTY: All right. DTX 994, DTX 1340, and PTX 758. MS. WOOD: That's what I have, Your Honor. THE COURT: All right. Does Google agree with that?

1	MS. RHEE: Yes, Your Honor.
2	THE COURT: All right. So the only things that
3	so that everybody knows that are going to be appearing on
4	the sites probably tonight, I would think well, maybe
5	by 10:00 tomorrow morning are the demonstrative exhibits and
6	those three. All right? Nothing else.
7	MS. WOOD: Yes, Your Honor.
8	THE COURT: I would like to make sure that we have
9	a list of the witnesses you are planning to call. And be
10	generous. All right? Because I'm already hearing a lot of
11	repetition. I've heard it once; I've heard it twice. I've
12	got your glossary. Make sure you streamline the testimony
13	tomorrow so I don't have to hear the same definitions over
14	again. All right?
15	MS. WOOD: Understood, Your Honor.
16	THE COURT: Okay. And so you give us the witness
17	list for tomorrow. All right?
18	MS. WOOD: Do you want me to give you that now, my
19	anticipation, or give that in the morning? When would the
20	Court prefer?
21	THE COURT: It's fine in the morning. You should
22	exchange it, if you haven't already, with Google so
23	everybody knows what's going on. All right?
24	MS. WOOD: We have.
25	THE COURT: Is there anything else we need to

address? MS. WOOD: No, Your Honor. THE COURT: All right. Very good. So I'm giving you a few extra minutes tonight to recover. And we'll see you tomorrow morning at 9:00. MS. WOOD: Thank you, Your Honor. (Proceedings adjourned at 5:44 p.m.) I certify that the foregoing is a true and accurate transcription of my stenographic notes. Rhonda F. Montgomery, CCR, RPR